



SEQUENCE LISTING

(1) GENERAL INFORMATION:

- (i) APPLICANT: KENICHI MATSUBARA
KOUSAKU OKUBO
- (ii) TITLE OF INVENTION: GENE SIGNATURE
- (iii) NUMBER OF SEQUENCES: 7848
- (iv) CORRESPONDENCE ADDRESS:
- (A) ADDRESSEE: Lyon & Lyon
(B) STREET: 633 West Fifth Street
Suite 4700
(C) CITY: Los Angeles
(D) STATE: California
(E) COUNTRY: U.S.A.
(F) ZIP: 90071
- (v) COMPUTER READABLE FORM:
- (A) MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
storage
(B) COMPUTER: IBM Compatible
(C) OPERATING SYSTEM: IBM P.C. DOS 5.0
(D) SOFTWARE: Wordperfect 5.1
- (vi) CURRENT APPLICATION DATA:
- (A) APPLICATION NUMBER: 08/530,112
(B) FILING DATE: July 10, 1995
- (vii) PRIOR APPLICATION DATA:
- (A) APPLICATION NUMBER: PCT/JP94/01916
(B) FILING DATE: 11 November 1994
- (A) APPLICATION NUMBER: Japanese H5-355504
(B) FILING DATE: 12 November 1993
- (viii) ATTORNEY/AGENT INFORMATION:
- (A) NAME: Warburg, Richard J.
(B) REGISTRATION NUMBER: 32,327
(C) REFERENCE/DOCKET NUMBER: 215/070
- (ix) TELECOMMUNICATION INFORMATION:
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(C) TELEX: 67-3510

(2) INFORMATION FOR SEQ ID NO: 1:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 704
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00001

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

GATCTTCAAA CAAGCATCAG CGTTTTCCAG GGCTTCCCAG AGGTCTGTGC GACTAGCCCCG 60
 TGTCTATCAA AAGTTATTAG AGAGGATGAA GCATTAGCTT GAAGCACTAC AGGAGGAATG 120
 CACCACGGCA GCTCTCCGCC AATTTCTCTC AGATTTCCAC AGAGACTGTT TGAATGTTTT 180
 CAAAACCAAG TATCACACTT TAATGTACAT GGGCCGCACC ATAATGAGAT GTGAGCCTTG 240
 TGCATGTGGG GGAGGAGGGA GAGAGATGTA CTTTTTAAAT CATGTTCCCC CTAAACATGG 300
 CTGTTAACCC ACTTGCATGC AGAACTTGG GATGTCACTT GCCTGACATT CACTTTCCAG 360
 GAGAGGACCC TATCCCCAAA TGTGGAATTG ACTTGCTAT GGCCAAGGTC CCTTGGNAAA 420
 GGGAGCTTCA GTATTTGTGG GGGCNTCATA AAACCATGGN TTCAAGNCAA TCCAGCCTCA 480
 TNGGGNNGGT CCTGGGNACA GTTTTTTGGT AAAGGCCCTT GGCCCAGNTG GGGGGAATGG 540
 GCCTCCTTTT TAAGNTTGG GNTGGAATNG TCTNGCAAAT TGGGGCTCCC ATTCNCGGG 600
 GGTTTGGGGG TTTTTTNGG CTTNCCNGG NNGGAAGGGN TGGGTTTGGG GGNTNGGTTN 660
 CCNTTGGGNG GGCCTGGGNG TTTGATTNA CCCGGGNCCT NGGN 704

(2) INFORMATION FOR SEQ ID NO: 2:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 659
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00002

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

GATCTTTAAA ATACACACTC AAATCAAGAA ACTTAAGGTT ACCTTTNTTC CCAAATTTCA 60
 TACCTATCAT CTTAAGTAGG GACTTCTGTC TTCACAACAN ATTATNACCT TACAGAAGTT 120
 TGAATTATCC GGTCGGGTTT TATTGTTTAA AATCATTTCT GCATCAGCTG CTGAAACAAC 180
 AAATAGGAAT TGTTTTATG GAGGCTTGC ATAGATTCCC TGAGCAGGAT TTTAATCTTT 240
 TNCTAACTGG ACTGGTCAA ATGTTGTNCT CTTCTTTAAA GGGATGGCAA GATGTGGGCA 300
 GTGATGTCAC TTAGGGCAGG GACAGGATAA GAGGGNTTAG GGAGAGAAGA TAGCAGGGCA 360
 TGGCTGGGAA CCAAGTCCA AGCATACCAA CACGGAGCAG GCTACTGTCA AGCTCCCCCTC 420
 GGAGCGGNG CTGGTTCACA GCCAGCTGGC ACCAGNTTTT NTNGNGGAAG NCTTTTTCAA 480
 ACAGTCTCAG GNAAATCCAAT NTGCAAAGAC TTGCTTTNAG NAAAACCCAG NAGTTGAAAG 540
 GCTCCCAAGN ATTTTAAGGG NACTTNCCAA AACGGGGCCC CNGGNNCCTT TTGGGTTTNG 600
 GGGNTCAAAA CCCCAGAGGG GTTTGGGAAG NTTTTAATTG GNTTTAAAN ATNNNTNTN 659

(2) INFORMATION FOR SEQ ID NO: 3:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 625
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00003

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

```
GATCTAACTG GGTACCTGAG ATATTTNACA GCTGGACCTA GTTTCACAAT CTGTTGTCTC 60
CAGCTCTGCA TATGTCTGGC CAGGGGGCTT CTAGGAAGTA GGTTCATCT ATCAAATGTC 120
TCCTCTGACT TCCTTTTGAA ACTTACTGCT CTTCTGTTTT ATTTTGT TTTTGAAGCT 180
CAGAGGGAGA TGGGCAATTG ACAGGGATGC AATCCAGGGT GGGATTTCTT GAGGAAGTTA 240
CAAATAAGCT TGTTACAACA TCAAGATAGA TGGAATTGGA AGGATGCTAC CAGGAGAGTA 300
CTTACATAGT GCTCAGGAGT TTCTCTTCTT AAAATGTTTA CTGCTGAAAG ATGAGCAGGA 360
CCAGGGCGTT ATAGGCAGAG CCCTAGCCGA GAAACCTGCT GGCTCTGCC TGTTTTTATT 420
TCCCACTTTT GGTGTTGTG GCATTACTTT CAGAAATTTGC ACTTTCCTGC TTGTCATGAC 480
TTTTTTGGCA CACTTGCCAT GACGGGTGTT TCTGNGAACC ATGGAAGTTT TGCGGTAGTG 540
CCTCCAGGGG CAGGGGGNAA GGAGNGGTG TANCTGCATT TNGTNCAAAT AAATCCNGCC 600
TATTGTTAAT NAACCACTCT TTTGN 625
```

(2) INFORMATION FOR SEQ ID NO: 4:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 256
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00004

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:

```
GATCTGCCAG GCTGGGGTGT TTTCGGTATC TGCTGTTTAC AGGTCTCCAC TGTAATCCGA 60
ATACTTTGCC AGTGCACTAA TCTCTTTGGA GATAAAATTC ATTAGTGTGT TACTAAATGT 120
NAATTTTNTT TTGCGGAAAA TACAGTACCG TGTCTGANTT AATTATTAAT ATTNAAAAATA 180
CTTCATTCTT TAACCTCTCC TCATTGCTT TGCCACAGC CTATTCAGTT CCTTTGTTTG 240
GCAGGNTTCT GCAAAA 256
```

(2) INFORMATION FOR SEQ ID NO: 5:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 616
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00005

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:

```
GATCAAGCTC AAGAATAAGC TGAAATATGG CCAGACTATC AGGCCCATTT NTCTCCCCTG 60
CACCGAGGGA ACAACTCGAG CTTTGAGGCT TCCTCCAACCT ACCACTTGCC AGCAACAAAA 120
GGAAGAGCTG CTCCCTGCAC AGGATATCAA AGCTCTGTTT GTGTCTGAGG AGGAGAAAAA 180
GCTGACTCGG AAGGAGGTCT ACATCAAGAA TGGGGATAAG AAAGGCAGCT GTGAGAGAGA 240
TGCTCAATAT GCCCCAGGCT ATGACAAAGT CAAGGACATC TCAGAGGTGG TCACCCCTCG 300
GTTCTTTTGT ACTGGAGGAG TGAGTCCCTA TGCTGACCCC AATACTTGCA GAGGTGATTG 360
TGGCGGCCCC TTGATAGTTC ACAAGAGAAG TCGTTTCATT CAAAGTTGGT GTAATCAGCT 420
GGGGGAGTAA GTGGGATGTN TGCAAAAACC AGAAGGCGGC AAAAGCAGGT ACCTGNTTCA 480
NGGCCGAAC TTTCACATCA NCTNTTTCAG GGTNTTNCCT GGNTGAGGNG GAACNTCCAN 540
GTTGGGGGTT TTGGGTTTTT TTAAGGGGTT CNTGTTNGCA AGGGGGTTGG GNTTNTTTTA 600
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NNCCTGTTNN GNACCN

616

(2) INFORMATION FOR SEQ ID NO: 6:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 615
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00006

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:

```

GATCTCTGCT ATTTTANCCC CCCAAATAAG TTATTTGTCC TTTAAGGTTG GTTACNNATA 60
ATACCCCTCA GTAAGATTCC AGTATTAATT TCTGGGCAGT TTGTTCTCTG TATACAATTG 120
CAAATGATAA GCATTTTTGT GAGTGACCAC CTTTGCAATA TGTTTGTTAA TTNTTCATGT 180
TGGGTTCTTT CTGAAATGTA CATCTTTACA TAAAAACCTC ACATTCTACT TGATTTACAC 240
TTCCTAGTCT ACATTACATG TGGTTGAAGG TTTTATACAT TCTATATGCT TTTACTAAAT 300
ATACAAGATT TACTACTAGA AATTTGGAGA AAGAACACTA ACACATGTAC TTGTGATTG 360
TTCATGTTAT ATTAAAACCT TGAGATTTGT GTATTTATGT AGGGGGGGGT ATTGNCCAGG 420
NCTGNTGGTT TTTTGCTCCN TGGGGCTATT NTAATAAANC NGGGGTATNG GGTGNTGGC 480
CTNGGTTTGG GCCTAAANTT GGATATAINT GGGGTTCTT NGNTTTTACC AAAATNGNTT 540
TTGGTTGGTA GGGTTNTTAT TGGACCCNNT CCTGGGCCTG GGATAATNTG GCNGNTTCCC 600
NGGANAAAAN NCCCN
615

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(2) INFORMATION FOR SEQ ID NO: 7:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 608
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00007

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:

```

GATCAAACCA AAGGAAAAGT GTTGCTAGAG AAAATTGGGG AAAAGGTGAA AAAGAAAAAA 60
TGGTAGTAAT TGAGCAGAAA AAAATTAATT TATATATGTA TTGATTGGCA ACCAGATTTA 120
TCTAAGTAGA ACTGAATTGG CTAGGAAAAA AGAAAACTG CATGTTAATC ATTTTCCTAA 180
GCTGTCCCTT TGAGGCTTAG TCAGTTTATT GGGAAAATGT TTAGGATTAT TCCTTGCTAT 240
TAGTACTCAT TTTATGTATG TTACCCTTCA GTAAGTTCTC CCCATTTTAG TTTTCTAGGC 300
TGAAAGGATT CTTTCTACA TTATACATGT GTGTTGTCAT ATTTGGCTTT TGCTATATAC 360
TTTACCCTCA TTGTTAAATT TTTGTATTGT ATAGTTNCTT TGGNGGTATC TTAAAACCT 420
ATTTTGTAAA ACCAACCTTG GCTTTGNTAA NCATTTGGGC CGCTTGGGTA NGTCCGGACC 480
TNCCCTTNC CCCNAGGGCC TGTCAGGAGN GCCGNTTNN CCGGGNGTT GGNCCCGNNG 540
CCTTCCCGAT TTTTNGGGGT TGGTCCCTN GGTNCCGGC NTCTGTANGG GGTNCNCCTT 600
TTNNCCN
608

```

(2) INFORMATION FOR SEQ ID NO: 8:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 606
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00008

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:

```

GATCGCTTCC TAGAAATAAG CAACACCTCT CCCAAAAAGC AGCCCACAAG GCAGGGGCCA 60
GCAGCCCAGC CATCACTCAT CTTTNAGGAA ATNAGTTGGT AGCCTCTGTG CACTGTTTGG 120
TGGCCACATC ANNGGTGATG TCCTGTTCAC ATACCTGCTT GTATTTAAAG CCTCAGTCT 180
GTCCTGTTGT GTGGGGCGAA GTGATGGACT CTGCCAGGTG GACATGCTGT GGGTGGATGT 240
TCCCGGCGTG TGCCGGCCTG AATGGACAGG GGTCACCTCA CAAGCATGTC AGGGAAAAATC 300
ACTGTCACAC AATTCCAATG GATTTTGTGC TCTTTTGTAA AAAAAAAAAAT TCTTTAGCGT 360
AAACCATGNA TTTTTTTTCA ATGTAGNCCC TTGGGGANTG AANTGAAATT TTGGGCTTCT 420
TCANATNCGN AAAATNAAAT TTTTACCCCT GAGGGGGGGA GCCCCTTTCT GAAAGAAGGT 480
NTGGGCCAAA AGCCCTTTTA ATGNTTGCTG GCCNTTGNTG GTTTTNANNG TCCANTTTC 540
TTGGGGCGAA NGCCGNNTG ANAAAGGTGG GTTTCNCTGG NGGNTTTAAG GNGGTGGTTT 600
GNTTTN
606

```

(2) INFORMATION FOR SEQ ID NO: 9:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 606
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00009

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:

```

GATCTTCANN NGTTAAGCAC TTGCTCTNAA GATTAAATTT CTTTTCTTT TTAAGGTAA 60
GGGTGTGTAC GTATGGCAGT GATGTCTATG TTGAGATTAA CTTATGTATT GAGGAAATTT 120
TGAAGTTTAT TTTTTCGATG AATAAGGCTG TCAAATNATT TAGTATAGAT TAATGACATC 180
TTTTTTAGAA ATATTAAAGT GAGTATTCCT CATTATGTCA TCATTTCTGA TAATTAGAGT 240
GCTAATTTGA ATGTTAGATA ATGNTTCCAC ATCTATACCT ATTTCTTTCT AGGGCACTTC 300
TGACCTGGG GCTTGGGGAT GGCCTTTAGG CACAAGTAGT GTCTGTGTTA AGTTCACTAA 360
ATGTGTATTT AATGAGAAAC ATTCCNATGT AAAAATGTGT GTATGTGAAC GTATGCNNAC 420
ATTGTTATTG TGCACNGTA CATTGTGAAG AAGTAGTTT GAAATTTTGT AANGCACAAC 480
CCTTAANGNG GTGTGGAGTT ATTAAANTGN TGTAGGCNCA AATGTAATGT TTAGCCTATA 540
AAAGGCCCTC CTATTGTCCN TNGGCAAGGC TTTGNCNCTT GNAANTAAAN CCCGTNTTTG 600
TTTAAA
606

```

(2) INFORMATION FOR SEQ ID NO: 10:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 606
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00010

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:

```

GATCAGGGGA GACCCCAACT GCCAGATATA TTTTAATGTA CAAACTGAA ACCAGATGAA 60
ATAATGTTCT GTCACGTGAA ATATTTAAGT ATATAGTATA TTTATACTCT AGAACATGCA 120
CATTTATATA TATATGTATA TGTATATATA TATAGTAACT ACTTTTATA CTCCATACAT 180

```

AACTTGATAT AGGAAGCTGT TTATTTATTC ACTGTAAGTT TATTTTTTCT ACACAGTAAA 240
 ACTTGACTA TGTTAATACC TTGTCCTATG TCAATTTGTA TATCATGAAA CACTTCTCAT 300
 CATATTGTAT GTAAGTAATT GCATTCTGC TCTTCCAAAG CTCCTGCGTC TGTTTTTAAA 360
 GAGCATGGAA AAATACTGCC TAGGAAAATG CAAAATGGAA ATAGGAGAGA GTAGGTTTTT 420
 CAGCTTAGTT TTGAGGGGGG CCGGTTACCT TGTATATTCC CCCATTCACTA TTTGGTGTCC 480
 ATGTGTAGGG GAAGGTAAAG GGGTGGTTCC ATAATCAAGT TCCCCGTGGG GTGTNCCCCC 540
 TGTTAAATGT CCCTGGTTTG GTGTTACCCG GGCTTTATGG GGNCCTTTCA TTATTTCCGG 600
 TNGGNN 606

(2) INFORMATION FOR SEQ ID NO: 11:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 598
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00011

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:

GATCAACAAA AGATAAACAA ATTTGCACGG AATACAAGTA GAATCACAGA GCTGAAGGAA 60
 GAAATAGAAG TAAAAAAGAA ACAACTCCAA AACCTAGAAG ATGCTTGTA TGACATCATG 120
 CTTGCAGATG ATGATTGCTT AATGATACCT TATCAAATTG GTGATGTCTT CATTAGCCAT 180
 TCTCAAGAAG AAACGCAGAA ATGTTAGAAG AAGCAAAGAA AAATTTGCAA GAAGAAATTG 240
 ACGCCTTAGA ATCCAGAGTG GAATCAATTC AGCGAGTGTT AGCANGATTT GAAAGTTTCA 300
 TTGTATGCAA AATTCGGGAG CAACATAAAC CTTGAAGCTN GATGAAAGTT AAACATTTTA 360
 TAATACTTTT TTTATTTGNT TTAATAANCT TGATTATTTG TTTAANATGG TAATTTTTC 420
 TTCTTCANAT GGCNNNGGT NAGCAAANCT TTCTTTTTTT AAAAAATTTT CCANTTGT 480
 AATGGGGAAC TTTGCCNTT TTCCNCATGG CNTGNTNATT NATTTTNTNT TTTTAAAGGG 540
 GGGCCAGTTT TCCCCNNGG TTTTTGNCT TNNCGGTTNT TNCAGGNTN GGGGGTCN 598

(2) INFORMATION FOR SEQ ID NO: 12:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 597
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00012

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:

GATCGACAGA CCTGAAGCCA TCAGTGAAGA GAGGTTGCGA GAGATGTTTG GTTTATATGG 60
 TCAGACAACA GGAAAGGGGA GTATATCTCT GAAAGAACTG AATGCCCGAC CCTTAGAAGT 120
 TTTTATGTGT AGTGTGCTCA AAAGACAAGG TTACGGAGAA GGCTTCCGCT GGATGGCACA 180
 GTACATTGAT TAACACAAAC TCACATTGGT TCCAGGTCTC AACGTTTCAGG CTTACTCAGA 240
 GATTTGATTG CTCAACATGC ATAACCTGAA TTCAATAGAC TTTTGCTNGG TTATAAAAGA 300
 GATGTTTTTT AGATTATTAA TATTAANTCA ACTTAATTTG ANTGNAAATT NGAAANCTGA 360
 TTCAAGTAAG NTTTGAGTAT CACANTGTTA GCTTTCCTAA TTCCATAAAN GTACCTTGGG 420
 TTTTTTNCAG NTTTATAAAT CTGGCCATCA NCCCCNGCGG CCTTTTNGTA AAGGGGCACC 480
 TTTTCCNGCA GGCCATTTGG NAGCNCNTT TTAACCACCT TGGGNTTTTT AACCCTTTTT 540
 TNAAGGGNCN NCNTGGTTAA NTTTTTNTT GGGCCTTNC NGGGCCTGGT NTTTAAN 597

(2) INFORMATION FOR SEQ ID NO: 13:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 593
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS00014

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:

```

GATCTTCCAA AGCACTATTT GTTGTAAATAA CTTTTCTAAA TGTAGTGCCT TTAAAGGAAA 60
AATGAACACA GGAAGTGAC TTTGCTACAA ATAATGTTGC TGTGTTAAGT ATTCATATTA 120
AATACATGCC TTCTATATGG AACATGGCAG AAAGACTGAA AAATAACAGT AATTAATTGT 180
GTAATTCAGA ATTCATACCA ATCAGTGTTG AAACCTCAAAC ATTGCAAAAAG TGGGTGGCAA 240
TATTCAGTGC TTAACACTTT TCTAGCGTTG GTACATCTGA GAAATGAGTG CTCAGGTGGA 300
TTTTATCCTC GCAAGCATGT TGTTATAAGA ATTGTGGGTG TGCCTATCAT ACCANTTGTT 360
TTCTGTATCT TGAAAAAGTA TTCTCCACAT TTTANATGGT TTTATATTNG GGGATTCCCTT 420
TAATGCCCCC TTGGNCAAAT TTATATATAT GGGCCCCATN GTTNCCNTTT NAATTTTNG 480
GTTTNGGGT GTAAGGGNCN TGCNCNTATG GTGGGGGCCT CCCAAAANTG GGANCANGNT 540
TTNCCNTNG GACNCCCNNT TGGTTGTTNA GGGGGGCCAA TTTTTCNTNC CCN 593
  
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(2) INFORMATION FOR SEQ ID NO: 14:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 574
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS00015

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:

```

GATCGTNCCTG CAGTGGGAGC GTGTGACTGC GGAAGTTGTG AAGCCACGGG AAACCTCGGAG 60
CCTAGAGCAG CAGCTCAGCG CTTCTATGGG AAGCGGTCTC GAGCAGAAGC CCCACTGAAG 120
TGTCCCCTGG CAGACACCCA CATGAACTCT TCCGAGAAAC TCCAGTTCTA TAAAGAGAAA 180
GCCCCAGATT GCCATGGGCC AGTNTTGAAG CACGAAGCTA TCTCAAGCCA GGAGTCAAAG 240
AAGAGCAAGA AGAGACCTTT TGAGGAGTCA GAGACAGAAC AGAATAACTC TTCACAACCT 300
TCAAAGCAGA AATATGTATG TTTTGTCTG GAAGACTGGG GACTTGTTAA ATTCCTATTG 360
ATTAAGTAGA TACAAGTTGA CCTTCTCTG GCCCCCAGCT CTAGTGTTTG AGTAAAGGGA 420
GACTNAGGGT GGGTTTACTT TTTTNGGTTT GNATTTANCC TATTGGCATT TAGNCATAGG 480
TAAGGCGGTN TTTTCNNCT TTTNTTGGNT TTGGGNGGGG GATTNTNTNN GGGGNNNNA 540
AAAANTTNCC ANGGGNTTTT TCCAAANCA NGN 574
  
```

(2) INFORMATION FOR SEQ ID NO: 15:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 573
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS00016

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:

GATCAGCCCA GAGGAATGCT GAGAAATCAC CTGGAGGAGG GAGCAGAAAG AGAAGGTTTT 60
 TAAGGAGGGG CTTCTGAATA CTTGGGAGAT ACGGAACGGA CCAAGGACCA CACTCCAGGG 120
 TGCATTCTGT GCTCCCTGGG GCACCACTTC TGGATTACAG TGTGCCAGGT CCTTTGGAGG 180
 CCCTACCCCT TCCCCATTCA TTGCCACCAG TGAGAAATNG GGGTGCCCCCT GTGTAAAGAA 240
 ACCTACCAAA GGTTTACATT TGCACCTTAG CCTCAATAGC TACGAACCCT AGAGAAGCAG 300
 CTAGCTGGAG CTCATGTGCA ACTCCTGATT CTCAGGAGAA AGATGGATT TAACCNAAAA 360
 TTATGAGTNA GCTGTAACT CTAAAATGTA CTTNNGGAGA TAGGGCCAAG NGAGAGGTCA 420
 TGGGCCAACT TAAGTGTTAT CCNGTAGGAA AGNNCAGGTA NCACTGGNTT TTTTTTTNNA 480
 GGGTTGCTNT TNCCTTNTNC TAAANGGATT TGNTANTTCC NTGGGGNTNG NATTTAAATT 540
 GGGTTNTAAA AAGNTTNGAC GTGANAAAAA TTN 573

(2) INFORMATION FOR SEQ ID NO: 16:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 567
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00017

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:

GATCAAAACA GTCTCACCAG CACCATATCC ACATTCTAGC CCATGGAAAAG GGTAAAGAAA 60
 AGAAAGTGGA AGATATTAGT TTCCATTTAA GGAAGTGACA TGGAGNTAAT ATAAGTCACC 120
 TGTGTTTACA TTCCACTGGC AAAAATTCAG TCACAGGAAT GTACTTAGCT GCAGAGGAGG 180
 CTAGGATATG CCCTCCAAAA ACTCAGGGGG GATGTCCTAC TTGTAAAAGG AAGAAATGAA 240
 AANTGGACAC TGAGAGGAAA TCAGCAGTCT CAGAGGTAAT ATACTTACAC AAGTTTTTTA 300
 AAAACCATAA AATGATGCAG AATGAAGTTT CCACTCTATT CACCATCTAT CCAGTCCTCA 360
 TGCCCTCCAN CANGNGGTAA ATNCTTTATT ATTGTGTCAT GGTATCTTTC CAGGGTTTTT 420
 CTAAGCAATT TTGCAACNGN TTTTAATTAT GTATCCTNAT TTCCTACNTT ACCCCNTTTT 480
 TGTCATGNA NGGNANANTN TCCTGNGGNN TAACCTTCNT GTNTCTTTTT TTCCCTNAT 540
 ATTTTTTGGC GGTNCCNTNN NTTTGGN 567

(2) INFORMATION FOR SEQ ID NO: 17:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 552
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00018

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:

GATCTTACCC GTGACAAAAT GTGTTCCATG GTCAAAAAAT GGCAGACAAT GATTGANGCT 60
 CACGTTGATG TCAAGACTAC CGATGGTTAC TTGCTTCGTC TGTNCTGTGT TGGTTTTACT 120
 AAAAAACGCA ACAATCAGAT ACGGAAGACC TCTTATGCTC AGCACCAACA GGTCCGCCAA 180
 ATCCGGAAGA AGATGATGGA AATCATGACC CGAGANNGC AGACAAATGN CTTGAAAGAA 240
 GTGGTCAATA AATTGATTCC AGACAGCATT GGAAAAGACA TAGAAAAGGC TTGCCAATCT 300
 ATTTATCCTC TCCATGGNTG TCTTCGTTAG AAAAGTAAAA ATGCTGAAGA AGCCCAAGTT 360
 TGAATTGGGA AAGCTCATGG AGCTTCATGG TGAAGGCAGT AGTTCTGGAA AAAGCCACTT 420
 GGGGNCCGNG ACAGGTGCTT AAAGGTTGAA CCGNGCTNGA TTGGTTNTGA ACCCACCAGT 480
 CCCAGGAATT CTTGTTTAAA GTTCCAGNCN TTCAATTAGT TGGCAAATTA AAAANGTGCT 540
 TTTTTGNGGA AA 552

(2) INFORMATION FOR SEQ ID NO: 18:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 581
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00019

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:

```

GATCGCCGTT CTGGTAAAAA GCTGGAAGAT GGCCCTAAAT TCTTGAAGTC TGGTGATGCT 60
GCCATTGTTG ATATGGTTCC TGGCAAGCCC ATGTGTGTTG AGAGCTTCTC AGACTATCCA 120
CCTTTGGGTC GCTTTGCTGT TCGTGATATN AGACAGACAG TTGCGGTGGG TGTCATCAAA 180
GCAGTGGACA AGAAGGCTGC TGGAGCTGGC AAGGTCACCA AGTCTNCCCA GAAAGCTCAG 240
AAGGCTAAAT CGAATATTAT CCCTAATACC TGCCACCCCA CTCTTAATCA GTGGTGGAAG 300
AACGGGTCTC AGAACTGTTT GTTTCAATTG GCCATTTAAG TTTTAGTAGT AAAAGACTGG 360
TTTAATGATA ACAATGCATC GTAAAACCTT CANGAAGGGN AANGGAGGAA TGNTTTTGTG 420
GGCCCACTTT GGGTTTTNCT TTTTNCGGT GTNNGCAGTT TTTAAGGTTN TTAAGTTTTT 480
TNAAAAATNCA GGACCTTTT TAANTGGNAA CCAACTTTGG CCCAAAATT TTGTCACCAG 540
ATTTTTTNGG GCCCNNTTAA AAAANGTNTT NATTNGGGAA A 581

```

(2) INFORMATION FOR SEQ ID NO: 19:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 556
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00020

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 19:

```

GATCAGCAGG GTTCTTTGTA AATAGTATTT TGAGACACTA AGATGTTTCT ACTGCTACGG 60
AATGTATTTT AAACACATAT CGTTTCTTTT TCTTGGAATA AAAGTTGATT AGGACCACAG 120
NNNNGGTTTA GAAAGGGTAA TATTTTGAAA TACTACAAGG TTTAGACAGT CCATGAAATC 180
GACCTGTTTA ATAATTTACC ATCCTGAAAG TCCAGAATTA AAATATGGAA GCAAGAACTA 240
TATAATTGAT TAGGATGCTT GGTAGGTTTT TTTCATTGTT CAAATATTCA TTGCACAGTG 300
GATTGTTTTG ATTAGTTAGT ATGCTTTTTT TTTAATTAAT TCAGTCTTCT GTTAATTTTT 360
AAGNTTTGGT TAGTGCCACA AGGAATTTNA CTTNTTGATT TGTATAATNG GAACCTGACC 420
TNGGGATTNG TAGCGGGGNT TTGAAGGGTG GGGACCTNCC CNCAAAATAA GGGGGAGGTT 480
TCCAAANNTT CCNCTGGCCG NCCMNNATC CCAGGTAAAG GGGGTNGAAA TANTNNGGGN 540
NCCCCCAGG GGAAAN 556

```

(2) INFORMATION FOR SEQ ID NO: 20:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 555
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00021

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 20:

```

GATCTGGTAC GAGTGTGTGA AAACATCCCC ATTGTGTTGT GTGGCAACAA AGNGGATATT 60
AAGGACAGGA ANATGAAGGC GAAATCCATT GTCTTCCACC GAAAGAAGAA TCTTCAGTAC 120
TACGACATTT CTGCCAAAAG TAACTACAAC TTTGAAAAGC CCTTCCTCTG GCTTNCTAGG 180
AAGCTCATTG GAGACCCTAA CTTGGAATTT GTTGCCATGC CTGCTCTCGC CCCACCAGAA 240
GTTGTCATGG ACCCAGCTTT GGCAGCACAG TATGAGCACG ACTTAGAGGT TGCTCAGACA 300
ACTGCTCTCC CGGATGAGGA TGATGACCTG TGAGAATGAA GCTGGAGCCC AGCGTCAAGA 360
AGTCTAGTTT TATAGGGAAG TTGTCCTGTG ATGTCAGCGG TNCAGCGTGT GTNCCACNTC 420
ATTATTATCT AGCTAAGCGG ACATGTNTTC ATCTGTGGGN TCTTAAGGAG NTGAGTNGNN 480
TNGNGTNTAT NTGGANTTAA AAATAACTTC ATTNTTNGGC CNNATATTTA NGTNTTTTNG 540
CCCGNTTNTT CCCTN
555

```

(2) INFORMATION FOR SEQ ID NO: 21:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      544
(B) TYPE:        nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

```

(B) CLONE:  HUMGS00023

```

(ix) FEATURE:

```

(D) OTHER INFORMATION: "N"=unidentified base

```

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 21:

```

GATCGATACA TGCAAATTTA ATGTAGTAAC TCACTTTTCC ATATATTTTN AATGTATATT 60
TCTATTTATG AATACCAATT TATAAAAAAT AATTACACAG AAAAAAATGG AATAGGAAAA 120
ATTATGCATC TAGCACATTT AAAGTGTGCA AATATGAAAA TTTTTCGAGG ATTACATTTT 180
NTNNNTAGGC TGCAATTTTT AACTGGCTTT AAAACTGTAA CACATCACAT AAAAGTACTT 240
TACCCGGTAT GTATTGCATT ATATCATTGC AATAATTATT GGAGTCTAGA TATCGAGCCA 300
TCCCAGGTGT TGGGCGGGGG GAGGGTTGTG GCAAGTTGTC TTTTCAATTT NGNGNGTTTT 360
CCTGTNGCTC CAGGGCAAGT ACCGGGTTGG AAAGCTGCCT GTAAGCGTTG GCACCTTCAT 420
AGNGTAGTGT TTNGGTGNCT TTTTTTNTCG GTTCTTGTA AATTNGGTNCG GTNGGTGGTG 480
TTCAGATGNT TTTTTCNCNT NGTTCAGCAA CTTNCCCNNT NNCTTGTCTT GATAGGGNAC 540
NTCN
544

```

(2) INFORMATION FOR SEQ ID NO: 22:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      538
(B) TYPE:        nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

```

(B) CLONE:  HUMGS00026

```

(ix) FEATURE:

```

(D) OTHER INFORMATION: "N"=unidentified base

```

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 22:

```

GATCTCTATC CAGTTGGACA CTTAATTGCT TTCTTCATTC AGAAAGATAG TCATGTTTAC 60
TGGTATATTT GGTCACTCTT AGAACCTGTC CTTACATAT GTTTTTTATG GGACCCATGA 120
ATGGTTAGCC TTTCTGTACT ATTGTAGAAG GAAATAAATA GGCGTAAAAA GACCATTGTA 180
GTAAATAAGT TCAAGGGGAA CTTGGGACCA GAAACCACTG GTATGTACAA AAAAGCTGGC 240
AATTTGAATA ACCTCAAGTT TGACAATAAT TTTTAAATTT GAACAGTTAT GATAAATTTT 300
AGTAGTTTTA TACACTAGAT GTGCCTAGAT GGTTCCTCAAG GCTTATAGGA CTGGCTCACA 360
GTTACCAATT TCTAGTGGCT TTTCTTGCCT TTGGGTCTGG GGGGCTGGGG GCAATGGGCT 420
TTTTTCCTTG GGTGCGCAAT CGGTTTCTCT GGTGCTCAG TTTCCAATCC TTNGGGGGGT 480

```


CNTTGTGNTN TTNNCNGCCC NGNNNGGTNN GTCCNGGGTG TTNGCCGGN NCNTTTTN 538

(2) INFORMATION FOR SEQ ID NO: 23:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 535
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00028

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 23:

```
GATCCTGGAA TATGTCGAGG TTATATTACC AGGTATTTTT ATAACAATCN GACAAAACAG 60
TGTGAACGTT TCAAGTATGG TGGATGCCTG GGCAATATGA ACAATTTTNA GACACTGGAA 120
GAATGCAAGA NCATTTGTNA AGATGGTCCG AATGGTTTCC AGGTGGATAA TTATGGAACC 180
CAGCTCAATG CTGTGAATAA CTCCCTGACT CCGCAATCAA CCAAGGTTCC CAGCCTTTTT 240
GAATTTACAG GTCCCTCATG GTGTCTCACT CCAGCAGACA GAGGATTGTG TCGTGCCAAT 300
NNGAACAGAT TCTACTACAA TTCAGTCATT GGGAAATGCC GCCCATTTAA GTACAGTGGA 360
TGTGGGGGGA AATGAAAACA ATTTTACTTC CAAACAAGGA ATGTCTGAGG GGCATGTAAA 420
AAAGGGTTTC ATCCAAAGGA TTTCANAAGG GNGGCTNATT TAAAACCANA NGGAANNNGN 480
AGGAGGCNNG NNGTGAATTT GNNTTTTGGN GGAANTTTTT GNTTNAANNT TNTGN 535
```

(2) INFORMATION FOR SEQ ID NO: 24:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 528
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00029

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 24:

```
GATCTACACT TGGATGGATG CAACTTTGAA AGAACTGACA AGTTTAGTAA AAGAAGTCTA 60
CCCAGAAGCT AGAAAGAAGG GCACTCACTT CAATTTTNCA ATCGTTTTTA CAGATGTTAA 120
AAGACCTGGC TATCGAGTTA AGGAGATTGG CAGCACCATG TCTGGCAGAA AGGGGACTGA 180
TGATTCCATG ACCCTGCAGT CGCAGAAGTT CCAGATAGGA GATTACTTGG ACATAGCAAT 240
TACCCTTCCA AATCGGGCAC CACCTCCTTC AGGGCGCATG AGACCATATT AAATTCTATT 300
TACTATTTGT TGAATTTATT TTTCCGTCAG TTATGTAAAA TAAACATACT CTNCCTTCCT 360
CCCCTGGATT TATTGCCATT TAAGGCTTTT AAAATTCTAA TCAANNTTTG TNANTGCAAT 420
CATCTGTTTN GGGNGTTNNG TTTTGGGATG TGCTTTTTGN NTGGNTTNCG GNTTAGNCTT 480
GGNTTGTTTT AATGGCCNTT CNNGTNANAT TTGGNGGNAA NGNGCTTN 528
```

(2) INFORMATION FOR SEQ ID NO: 25:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 528
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00030

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 25:

```

GATCAAGGTA TAATGGAAAA ATATACCTAT TCTTGAAGTA GTTTATTATN GTTTTCAAAT 60
TGATTTATAC CATTATTAAC CTGATGTGGT CTGCTTAAAA AATGAATATA TCAGTATTTA 120
GAAATAAATT GCAAAGGTGG GAATATATAC TTAAATAAATT TGTCTTAAGT AAATTAGCAT 180
TTGGTAGTCT GANATGGTGA CAGATTACTT GTTAAAATTG TGAAANCTCT GTTGTGTCCT 240
CTCTNCCTAC ATTTGTCCCT GAGAGTNCTC CACGATTACT AGGTTCTTGA TTCCCTTATA 300
TGGCAATCAG GCAGAGGCGT TCCTTAAGCA TTAGAGAGTT CTGAAGCTTA AGATTTGTTT 360
TGGTTGGATG AANGTCCTTA GTACAGTTGA AAANCAGAGC ATTAAAGNCT ANTCANTTTG 420
TTTTGNCCTC ACCAGTCATT TTAAATNNG TNGGAAATNCT TNTTNCTCA GTGCTTAAAN 480
NTTTCNTTG TTTCAANCTG NNGGGGGTTN GGATTAAACC AGGCCNCN 528

```

(2) INFORMATION FOR SEQ ID NO: 26:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 527
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00031

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 26:

```

GATCAGAATG CCCCTCCACT CATGAGACTC TTCATTTTGT CCACTTTGAC AGGAAAAGTG 60
GGAATGTATG CAGAGCTCTC AAAAGAAACA AAAAAGGCCA AAACGGTGCC TTCAGCCACA 120
TCCTCTGAAT TGGCCCTGAC TTGGACTAAA TGCACTAATG CAAAATCCCT TGACAAAAGC 180
GCATAGGTTA TTTCAAACCA GCATTGTTTT TTATGTAACC TGTTTTACCG CATCTTCTCA 240
GCAGCTTCTG ACCACTGCTC AATTTTCTCC TTTACAGCCA TTGTTCTGGT GGACAAATAA 300
CCTAGGTACT CCAAATCCTG GCAGGAAAAA TATACAGCAT TATGAANCAG CACTCANGTA 360
ATCCTAAAAT GGATTTCCTA AGCTGGTTAC ACATGGCCCT GGNAANGTCN TATTGANTTT 420
ANANGGGCTT TCTTCNTTTC AGGAGTTTNG GTCAACGGTG GCAAATCCNT GGGGTNNTTA 480
ANTGGNNGG TTNNTTAANT TNTGNTANTT TCNTNGGGGC CANAGGN 527

```

(2) INFORMATION FOR SEQ ID NO: 27:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 520
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00033

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 27:

```

GATCAAAATG GTTGGTGAAC CTCCACATGT CCAGTTCTGT TGCCAAACTT TCCATTCAGA 60
GTATTTGGTG GAGTTTGAAT TTGAGCAAAC TAAATGCCTT CATCTTAGGT AGAAAGGGCC 120
TGAATCTTCC ATTTTATATT CAAACCTCAT TGTTATTTGG CCTAAGTAAA AAGTCAGATT 180
TCATTTCCAT TTACCTGAGT TCGCTTTAAA GAGCTTTTCA AAGAGAGCTT TATAGACACC 240
CACAATTGTC CCCAATCTCT TCATGATGTT GCATTAATAG TTGTTTTTGT CCCTTTCTTG 300
GAAATGTAA TGCCAAAGNT TGCCTGAACA TTNGGGCGGG TTTTCTTAAA TTTGAANGTN 360
TAAAANTTTT NTAANGGGGG AATTNCCAAA NGGGTATTTA AAAGGGTTNG TTTTAACCAG 420
GTATTGTNGT GGGGGGATGG TCCAATAATC CTCCNGGGGG AGGGCTTTCA AGGGAAATCC 480
CNTTTTNGG GAAATAAAAA NNGGGTTAAA ANNNNTTTTN 520

```

(2) INFORMATION FOR SEQ ID NO: 28:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 514
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
- (B) CLONE: HUMGS00034
- (ix) FEATURE:
- (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 28:
- ```
GATCAGCGAG GCCGACAAGA AGAAGGTGCT GGACAAGTGT CAAGAGGTCA TCTCGTGGCT 60
GGACGCCAAC ACCTTGCCCG AGAAGGACGA GTTTAAGCAC AAGAGGAAGG AGCTGGAGCA 120
GGTGTGTAAAC CCCATCATCA GCGGACTGTA CCAGGGTGCC GGTGGTCCCG GGCCTGGGGG 180
CTTCGGGGCT CAGGGTCCCA AGGNAGGGTC TGGGTCAGGC CCCACCATTG AGGAGGTAGA 240
TTAGGGGCCT TTCCAAGATT GCTGTTTTTN TTTTGGAGCT TCAAGACTTT GCATTTCTTA 300
GTATTTCTGT TTGTNAGTTC TCAATTCCT GTGTTTGCAA TGTTGAAATT TTTTGGTGGA 360
AGTACTGAAC TTGCTTTTTT TCCGGTTTCT ACATGCAAGA GATGAATTTA TACTGCCATC 420
TTACCGGCTA TTTCTTCTTT TTTAATTCCA CTAACTCAG GCCATTTTTT AAAGTTGGGT 480
ACTTGCAAAG TAAAATAAAC TTTAAAAATT CAAA
514
```
- (2) INFORMATION FOR SEQ ID NO: 29:
- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 513
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
- (B) CLONE: HUMGS00036
- (ix) FEATURE:
- (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 29:
- ```
GATCATCATT CTTCTGACTC TAGATGGGAC ACTTGACAGT GACTTGAAAC ATTTGCATAT 60
TCAGGAATGC ATGAGATTTT AAGAGAGCCT ACAGTATGAA ATCATTTTCA CAAAATAAGC 120
AGCTTGCTTC TGAAATGCTG TCTTTCCAG TAGCTACTCA CCTGCCTCTG GTGGCTGGGA 180
TTCAGATGCC ACAAACACTGT CAGTATCTAT AGACCAGGTC TGTGCCACCT CCTCTCTCCT 240
CTGTGCTCAG TGAGGAGGCA GTAAATGAAG TTACAGGCTA GCACAATAACC TAACTCATGT 300
TTCCCAGTAC ACCTGTTGGA TATTNNTGT NCCTTTTAAAT GGTTCTCAAG GGANTTAGGT 360
TNTTGNCTTG TTTCCAGNGG TTTCCAGGTT TTCTTTGGGT NCTTTTTNAA TTTTNAANTT 420
CCNAGGGGGG GGGNNTTTTG GGNAAGGGGG GGGCAAAGGG GNTTTTTTTT TTNTTGGGCC 480
NNGNTTTTTG GGGGGAAANC CTTTNGGNTN NCN
513
```
- (2) INFORMATION FOR SEQ ID NO: 30:
- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 512
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
- (B) CLONE: HUMGS00037
- (ix) FEATURE:
- (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 30:
- ```
GATCTAAATT GTTACATTTT ACCATTTTAT TCCGAAGTTG GTTTTACTTT ATTAAATGAA 60
GATTTAGTTT TCATATCGTA TACATAGCTG TATAGATTTT AAAATNAGGT TGTTAATTTG 120
```

TGTCACCTTAC TATTTTTGTG TTGGTAATGC TTTAAATGCA TACTTAAAAA TGAAGTACTG 180  
 TTATCTAAGC TACTGTGTTT AGAAAATGTT AAGAATGAGC AGAAATTTTT ATAGAAAAGT 240  
 ATAACCGGAA GANGAGAGAA GATACTGCGA ATAGGCCCTC AANCTTAAAA NAGAAAAACC 300  
 TTTGCCAGTT TTANGGACAT ATTTTGATTG TTTTCNGTATT CTTAACACCT TTTTAAACAA 360  
 NGTTCTTGAT AGTACCCACT ATTATTGGGT TTGTTTTATG CCATTATTTG ATTCTTGGAT 420  
 ATCAAGCAT TTNCAATGTG GCATATTTNG NTTTCCNNTN NCCTTNCNTT TTTTNGGNCN 480  
 NCNTTACCCT TTCNTTGGG AAGNCANTTN GN 512

(2) INFORMATION FOR SEQ ID NO: 31:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 510
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00038

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 31:

GATCAGCCAG GCACAGAATC TCCAGAACAA CCTAGAGAGT GAATGCTAAT TTGTAGAGCG 60  
 AACTTCCATT TGGCCCATNA TTTGTAAGTGT TGTAAGTCTG CCAAGTGCCA GANTGCTTAC 120  
 ACGTTAAAGC AGCACCTTTC CATTTGCCCA CATATTCTTC TTGCACACCC CTTCCATTAC 180  
 TGCTGAATAG GACATTGCAT GGGGAAGAGTA CAGAGGTGGC AGANTGANGC TAGAGTGGGC 240  
 AGGNCTAAAG ACTGAGCCCC AGAGTGCTCC CAGCAACCGC CACGTACANG GTCTGNAATG 300  
 NCANGGGCAN GNGTGAGATT GGAANCTGTG TGTGAANGGT AAGCCCTTGC AGTNTTCTG 360  
 CCTCCCTTTC TTTCTGCCTT TCACCCCNCT TANTTGTNTG GTTNTTGGTT TGCCCGTTCT 420  
 TCTCTTGGTG GNTGCNCATT TGTTANATGG TGTTAGGGGT GTGGGGNTGA GGTTTTCCCC 480  
 TTTGATGTGG GNTTNTCCN TTGGGTTTAN 510

(2) INFORMATION FOR SEQ ID NO: 32:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 507
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00039

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 32:

GATCGTGAAG CCCAATGGCG AGAAGCCGGA CGAGTTCGAG TCCGGCATCT CNCAGGCTCT 60  
 TCTGGAGCTG GAGATGAACT CGGACCTCAA GGCTCAGCTC AGGGAGCTGA ATATTACGGC 120  
 AGCTAAGGAA ATTNAAAGTTG GTGGTGGTCG GAAAGCTATC ATAATCTTTG TNCCCGTTCC 180  
 TCAACTGAAA TCTTTCCAGA AAATCCAAGT CCGGCTAGTA CGCGAATTGG AGAAAAAGTT 240  
 CAGTGGGAAG CATGTCGTCT TTATCGCTCA GAGGAGAATT CTGCCTAAGC CAACTCGAAA 300  
 AAGCCGTACA AAAAATAAGC AAAAGNGTCC CAGGAGCCGT ACTCTGACAG CTGTGCACGA 360  
 TGCCATCCTT GAGGGACTTG GTCTTTCCNA AGCGGAAATT NTNGGCAAGA GGANTCCNGN 420  
 GTCAAACCTT GNTTGGCANG NCGGGCTCAT AAANGGTTCA TTTTGGNNCA ANNGACNAGN 480  
 AGGNCCAATT NTGGGNCAAA NAGGNTN 507

(2) INFORMATION FOR SEQ ID NO: 33:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 508
- (B) TYPE: nucleic acid

- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS00040
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 33:

```

GATCAGAAAC TCACCCTAAA TCTNAACGGG TGCCGCTATA ATTNGTNACA TCTGGCAAGA 60
TTTCCCTTTA TGTATATATT TAAACAATCC GCTTGGACAC GAACAAAGCC ACACTTCTAA 120
CTGCTTCTGG CGAACTGATT TAATTTTNAA TTTTTTNCAA TAAAGATATT CTTAGATACT 180
GAAAGAAATA GTTAATGAGT TTNCATTTGT CCTTGAGAAA ATTTGGCTCA AGTCCATTTG 240
GCTGTAGTGT CAACGATGTT TCCAGTAGTG TTTAGGATTT GGTGTCTTCA AAGGTAGTTG 300
ATTAAACCAA GTGTGTCTTT AATATCTTGT ATCAGAATAA CTTTGTATGT TACCAACTTA 360
AATTGCTAGA ATAAGGGTAA ATTGATACA CAACTGCTGA TTTTAAATTT AGGANCTTTG 420
ACCNATTTT GGGGTTTTCA AANCCGTTTT TGGNTGCTNT GTATCCTTAT GCTGTTTGGT 480
TNATTTCCAN TAAAAANTTC ACNCGNGN
508

```

(2) INFORMATION FOR SEQ ID NO: 34:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 505
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS00041
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 34:

```

GATCTGTAAG TAACTTCACA TTAATAAATG AAATATTTTT TAATTTAAAG CTTACTCTGT 60
CCATTTATCC ACAGGAAAGT GTTATTTTTA AAGNNAGGTT CATGTAGAGA AAAGCACACT 120
TGTAAGATAA GTGAAATGGA TACTACATCT TTAAACAGTA TTTCATTGCC TGTGTATGGA 180
AAANCCATTT GAAGTGATACC TGTGTACATA ACTCTGTAAA ANCACTGAAA ANTTATACTA 240
ACTTATTTAT GTTAAAAGAT TTTTTTTAAT CTAGACAATA TACAAGCCAA AGTGGCATGT 300
TTTGTGCATT TGTAATGCT GTGTTGGGTA GANTAGGTTT TCCCCTCTTT TGTTAAATAA 360
TATGGCTATG CTTAAANGGT TGCATACTGG GGCCAAGTAT AATTTTTNTG GTAATGTGTG 420
GNAAAGGATG NCCAGTTATT GGTTACCNCT TTANGNNATC CNNTAANGGG AACCTTCCCC 480
TNGGTTAAAA NCANGNNGTA NANNN
505

```

(2) INFORMATION FOR SEQ ID NO: 35:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 62
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS00042
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 35:

```

GATCTGGAAG GAGCTGTTTT GGATGAATGC AGTATAAAAT GTAAANCCCC TGCTAAATGA 60
AA
62

```

(2) INFORMATION FOR SEQ ID NO: 36:

- (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 503  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00043  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 36:  
 GATCGAAAGG CACTCCATGA GCTAAAACTG GAAGAGTGGA AAGGCAGACT ACAAGTTACT 60  
 GAGCACCTCC CTGAGAAAAT TGAAAGTAGT TTACAGGAAG ATGAACCTGA GAATGNTGCT 120  
 AAGAAAATTG AAGCACTGCT AAACCTTCCT AGAAACCCTT CAGTAATAGA TAAACAAGAC 180  
 AAGGACTGAA AGTGCTCTGA ACTTGAACT CACTGGAGAG CTGAAGGGAG CTGCCATGTC 240  
 CGATGAATGC CAACAGACAG GCCACTCTTT GGTCAGCCTG CTGACAAATT TAAGTGCTGG 300  
 TACCTGTGGT GGCAGTGGCT TGCTCTTGTN TTNTTCTNGN CTNTTTAACT AAGAATGGGG 360  
 CTGTTGTACT CTCACCTTAC TNATCCNTAA ATNTAAATAC ATACTGATGN TTTGTATTAA 420  
 TCGNTCCAAT ATATGNNTAC ATGNANTATA TCNACNCNCC TTNGATNTTT AAGCANGTAA 480  
 ATAAACCAT TNNGCAATGG AAA 503

(2) INFORMATION FOR SEQ ID NO: 37:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 497  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00044  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 37:  
 GATCGATAAA GAATTGGCTA GTGGTGAATA CTTTTTGAAG GCAAATCAGA AGAAGCGGCA 60  
 GAAAATGGAA GCAATAAAGG CTAAACAAGC AGAAGCCATC AGTAAGAGAC AAGAGGAAAG 120  
 AAACAAAGCA TTTATTCCAC CTAAGGAAAA ACCAATTGTG AAACCTAAGG AAGCTTCTAC 180  
 TGAAACTAAA ATTGATGTGG CCAGCATCAA GGAAAAGGTT AAGAAAGCAA AGAATAAGAA 240  
 ACTGGGAGCT CTTACAGCTG AAGAAATTGC ACTTAAGATG GAGGCAGATG AAANGAAAAAN 300  
 GANGAAAAAN NAGTANCATA CCCAAANCTC CTTGNCTNGG ACCTATCTCC TTTTNGTAA 360  
 AGGGGTTTTT TGGGGTTTTT AGGCCTTTAG GTTNCCCTTT TTTTGNNGGA AANTTTTTNTT 420  
 GGGGGGGTTT TTTNNCNTTT TTTNGGGGGG GGNGGGGGTT TTNNTCCTTG GGNGGGGTTT 480  
 TCTTTNNAAA AATTTTN 497

(2) INFORMATION FOR SEQ ID NO: 38:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 498  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00045  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 38:  
 GATCTTATGG ATGCTGAGCA TGTTCTGCAC TGGTGCTAAT GTCTAATATA ATNTTATATT 60  
 TACACACATA CGTGCTACCC AGAGATTAAT TTAGTCCATA TGAACATTG ACCCATTGTT 120  
 CATTGAGACA GCAACATACG CACTCCTAAA TCAGTGTGTT TAGACTTTTC AAGTATCTAA 180

```

CTCATTTCCTCA AACATGTACC ATGTTTTATA AACCTCTTGA TTTCCAGCAA CATACTATAG 240
AAAACACCTG CTACTCAAAA CACAACCTCT CAGTGTCTATC CATTGCTGTC GTGAGAGACA 300
ACATAGCAAT ATCTGGTATG TTTGCAAGCT TTCAAGATAG CCTGAACTTA AAANGTTGGT 360
GCATTAGTTG TATCTGATGG NTATAAATTT TGCCTCCTAG GTTCACTTTG GTGTCCAGGN 420
GCTAAACCTG TGGANCCTAA CTTTCCCCTN ATTGGGGGGG GAATAACCTG GAAAATAAAG 480
GGTTTTTTTC CAGGGNTN 498

```

## (2) INFORMATION FOR SEQ ID NO: 39:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 494
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00046

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 39:

```

GATCTGTGCT GTAGAAAAAC ATTAACCCTT GTTCAAAAAA GAAATGGATA ANCTTGGCCT 60
TTCTAAGTGG TAAGAATGAC CTGTCACTAT AATATACTGT ATGTTTACAT TTNATTTAAA 120
TTTAATCTCT TATGTATAGG GTGATAACCT TCCCCAGAAA CAACAGTGAT TGCNATTGTT 180
TTCTAGAAAC TNCTTTAAAG TGCCACATTT GGCAGTACAA ATGAGTCTGA GTGTAATAGC 240
CCAGAGATTT ATATATAGTT GAATGTCTAA NATGGTAAAA TGTGCCACTG TGTCAGTTA 300
CAGTGGCTTA TGTTTTTCAT AGTAATTCAN ATGANCTTCC TATTTTTGNT AGTAAATGGC 360
CATTTAATAG NATTCCTTGG CCATTTGAGG CTCCTGGCA AATTTTAGGT GCNNGGGGNG 420
GAANCCANTT TTTTANATGG NAATCCTTGG GTTTTTNCCN CCNTNNTNCC TGNCCNTTC 480
CCCCAAAAAN CCTN 494

```

## (2) INFORMATION FOR SEQ ID NO: 40:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 244
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00047

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 40:

```

GATCAGTTGA CAGTGGCAAT TAAACTGTAA ATAACCTGCC CTGGGGGCCT TTTTTTAAAA 60
AACAAAAACC ACAAAAATTC CCAAACATA CTTGCTAAAA ATNCTGGTAA GTATGTGCTT 120
TTNTGTGGGG GTGGGATTTG GAAGGGGGGT TGGGTTGGGC TGGATATCTT TGATAGATGTG 180
GACCACCAAG GGGTTGTTGA AAATAATTG TATTAAATGT CTTTGTGATA GCCTTCTGCT 240
CAAA 244

```

## (2) INFORMATION FOR SEQ ID NO: 41:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 283
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00048

## (ix) FEATURE:

## (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 41:

GATCACTGTA AATGAACCTC CCTGTTGGCC GCTCTGTGGA TGANACTTTA AGACTAGTTC 60  
 AGGCCTTCCA GTTCACTGAC AAACATGGGG AAGTGTGCCC AGCTGGCTGG AAACCTGGCA 120  
 GTGATACCAT CAAGCCTGAT GTCCAAAAGA GCAAAGAATA TTTCTCCAAG CAGAAGTGAG 180  
 CGCTGGGCTG TTTTAGTGCC AGGCTGCGGT GGGCAGCCAT GAGAACAAAA CCTCTTCTGT 240  
 ATTTTTTTTT NCCATTAGTA AANCACAAGA CTTCAGATTC AAA 283

## (2) INFORMATION FOR SEQ ID NO: 42:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 486  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00049

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 42:

GATCAGTTTT CNTTGTAACA CTGGGTTTAA TCTGAATGGC GCTGATTCTN CCAAGTGCAC 60  
 TGAGGAAGGA AAATGGAGCC CGGAGCTTCC TGTCTGTNCT CCCATCATCT GCCCTCCACC 120  
 ATCCATACCT ACGTTTGCAA CACTTCGTGT TTATAAGCCA TCAGCTGGAA ACAATTCCCT 180  
 CTATCGGGAC ACAGCAGTTT TTNAATGTTT GCCACAACAT GCGATGTTTG GAAATNATAC 240  
 AATTACCTGC ACGACACATG GAAATTGGAC TAANTTACCA GGAATGCAAG GGAAGTAAAA 300  
 TGCCCATTC CATCAAGACC AGNCAATGGA TTTGTGGNAC TATCCTGCAA ANCCCAACAC 360  
 TNTNTTTCCA AAGGNTTAAA GGCCACATTT TGGGTTGGCC ATTGGTNGGG TTATTNTTCT 420  
 TGGGAGTTGG GCCCCGGANG GAANTTTGNN TNTGTTNCCN NAANCTTGGG GAACCCTTGG 480  
 GTTTNN 486

## (2) INFORMATION FOR SEQ ID NO: 43:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 470  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00050

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 43:

GATCCACCAG CTGAGAATTC GTCCGCTCCC GAGGCTGAGC AGGGCGGGGC TGAGTAAATG 60  
 CCGGCTTACC ATCTCTACCA TCATCCGGTT TAGTCATCCA ACAAGAAGAA ATATGAAATT 120  
 CCAGCAATAA GAAATGAACA AAAGATTGGA GCTGAAGACC TAAAGTGCTT GCTTTTTGCC 180  
 CGTTGACCAG ATAAATAGAA CTATCTGCAT TATCTATGCA GCATGGGGTT TTTATTATTT 240  
 TTACCTAAAG ACGTCTCTTT TTGGTAATAA CAAACGTGTT TTTTAAAAAA GCCTGNGTTT 300  
 TTCTCAATAC GCCTTTAAAG GTTTTTAAAT TGTTTCATAT CTGGTCAAGT TGAGATTTTT 360  
 AAGNCCTTCA TTTTAAATTT GTAATAAAAN GTTTACCACC TTGGATTTTT TCAANAAAGG 420  
 TCAACCAANC TGCAANGCAC CTGTTAATAA NGGGTCTTTA ANTAATTAAA 470

## (2) INFORMATION FOR SEQ ID NO: 44:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 479  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single



- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
- (B) CLONE: HUMGS00051
- (ix) FEATURE:
- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 44:

```
GATCTGTAAG TAACTTCACA TTAAAAAATG AAATATTTT TAATTTAAAG CTTACTCTGT 60
CCATTTATCC ACAGGAAAGT GTTATTNTNA AAGGAAGGTT CATGTAGAGA AAAGCACACT 120
TGTAGGATAA GTGAAATGGA TACTACATCT TTAANCAGTA TTTCATTGCC TGTGTATGGA 180
AAANCCATTT GANGTGTACC TGTGTACATA ACTCTGTAAA ANCACTGAAA AATTATNCTA 240
ACTTATTTAT GTTAANNGAT TTTTTTTAAT CTAGACAATA TACAAGCCAA AGTGGCATGT 300
TTTGTGCATT TGTAATNCT GTGTTGGGTA GAATAGGTTT TCCCCTCTTT TTGTTAANTA 360
ATATGGCTAT NCTTTAANGG GTTGCNTACT GGGCCAGGTN TAATTTTTTG TAATGGNGTG 420
AAAGGGTGCC ATTTTTTTGT CNCACTTNGG GGGTCTCANT GGGGGGNTTC TNNCNGGGN 479
```

(2) INFORMATION FOR SEQ ID NO: 45:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 477
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
- (B) CLONE: HUMGS00053
- (ix) FEATURE:
- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 45:

```
GATCTCTAAG GAACTCCTGT TGCTAAATAT GAAGAGTATG GAACATTCAT ATAGTCTCTG 60
TGAAGCATGG GGGGAGGGAA GACATTTCTT TTTCTTATAG GCTTTATGCT CAAATGTCAT 120
AGTCTCCTTT CAAAGAATTG TGTTGCATTT TAAATGCACC CAGCTTAAGT AGAAGACATT 180
GAAGGATGCA TTAATTTTCA GGAACATTTT TGAATTATGA AAAGATTCCC AATTGAAAAA 240
NTTATTCAAC AAGTAAAAGC TAAGAAATTT CATTGAAATC ATAAGGCAGT TTAAGCATAA 300
NTTGATAAAA ATAGCTGTGT ACTACTAATT AATAGAAAAT CATTCAACCA AGAGANGAGT 360
CANGTGAATA TCGTTTGTTT ATTTGCTAGT GAGTTTCTTT GTAACGTTGG ATTTTATTAA 420
NTGGTTAATN FTTGGTTAGG TATGTCCTAT GTTANTNAAA ANTGGNCCAA NTTTAAA 477
```

(2) INFORMATION FOR SEQ ID NO: 46:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 476
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
- (B) CLONE: HUMGS00055
- (ix) FEATURE:
- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 46:

```
GATCACCATT AGCAAATGGA AATNACATTT GAAAGCCATT AGACTTATAG GTGATGCAAG 60
CATCTAAGAG AGAGGTAAAT CACACTATAG AGGCATAAGT GGTATCAGTT TTCATTTTCN 120
TAATTGTTTA ANCTGTGTTT TATACCAGTN TTTGCAAGTA ATTGGGTGTT AGCTTGAGAT 180
GGTTAAAGGT GGTTTGGGGA GGGACTTCGT TGTAATGGTT TTCCTGTAAA ANATGTTTCC 240
AACTCCNCTG AAATGTTGCT GAAAAGCATG GTGCTGGTAA CAGTTCAACA ATCCCGTGGC 300
TGCTCATTCT TGGCCTACTT TTA CTCTCCC ACTTGNNAGC AGGTTAGCGT TTGAAGGGTG 360
GTATGGGAAA AGCCTNGCAT TGCCTGGGCC AAATTCCTTT TGGGGTTCTN CTCCTTTCCC 420
CNCTTCNCCN TNTCCTTCCT TTCCCCNTN ANGTCNNCC NCTTNCNTTA GGTTCN 476
```

## (2) INFORMATION FOR SEQ ID NO: 47:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 472  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00056

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 47:

GATCAAATCT GCACTGTGTC TACATATAGG AAAGGTCCTG GTGTGTGCTA ATGTTCCCAA 60  
 TGCAGGACTT GAGGAAGAGC TCTGTTATAT GTTTCATTT CTCTTTATCA AAGATAACCA 120  
 AACCTTATGG CCCTTATAAC AATGGAGGCA CTGGCTGCCT CTTAATTTTC AATCATGGAC 180  
 CTAAAGAAGT ACTCTGAAGG GTCTCAACAA TGCCAGGTGG GGACAGATAT ACTCAGAGAT 240  
 TATCCAGGTC TGCCTCCCAG CGAGCCTGGA GTACACCAGA CCCTCCTAGA GAAATCTGTT 300  
 ATAATTTACC ACCCACTTAT CCACCTTTAA ACTTGCGGAA GGNNGCNTTT CAAATTAAT 360  
 TTAATCNTNG GGGGNTTTTA AACTTTAACC CTTTNNCCNT TNTNGGGGTN GGNANTTGNC 420  
 CCCNTTAAAG GGGGNNCCCC TNCNNGGGGG AATAAAACAA NTTNNTTTTT TN 472

## (2) INFORMATION FOR SEQ ID NO: 48:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 472  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00057

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 48:

GATCAAANCT GCACTGTGTC TACANATAGG AAAGGTCCTG GTGTGTGCTA ANGTTCCCAA 60  
 TGCAGGACTT GAGGAAGAGC TCTGTTATAT GTTTCATTT CTCTTTATCA AAGATAACCA 120  
 AACCTTATGG CCCNTATAAC AATGGAGGCA CTGGCTGCCT CTTAATTTTC AATCATGGAC 180  
 CTAAAGNNGT ACTCTGAAGG GTCTCAACAA TGCCAGGTGG GGACAGATAT ACTCAGAGAT 240  
 TATCCAGGTC TGCCTCCCAG CGAGCCTGGA GTACACCAGA CCCTCCTAGA GAAATCTGTT 300  
 NTANTTTAGC AACCCAGTTA TCCNCNTTAA NNCTGNGGAG AGTGGTCTTT ACATCTTAAT 360  
 TTTATTCTNG TGGTGGTTNT TACCTTTAAC CCGGTTTCTT ATTTTGGGT TTGTTATTGG 420  
 CCCTTTTTAG GGGTGGTCCC TTTTCCNGGT TGGNNTTCCC TTTTTTTGTG TN 472

## (2) INFORMATION FOR SEQ ID NO: 49:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 319  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00060

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 49:

GATCTCATGG TCCGGAATGA CACCCCTGT GGAACCACCA TTGGACCTAT CTTGGCTTCT 60  
 CGGCTGGGGC TCGGGGTGCT GGATTAGGC AGCCNNAAC TGGCCATGCA CTCTATCCGG 120

GAGATGGCCT GCACCACAGG AGTCCTCCAG ACCCTCACCC TCTTCAAGGG CTTCTTTGAG 180  
 CTGTTCCCTT CTCTAAGCCA TAATCTCTTA GTGGATTGAG CCCTCTTGGA AAGACTTCTC 240  
 TGCCATCCCT TTGCACCTGA GAGGGGAAGT TCTCAGCTGA GCTGAAGCTG GATTATTAAA 300  
 GTGGATTGTC ACTCAGAAA 319

(2) INFORMATION FOR SEQ ID NO: 50:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 461
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00061

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 50:

GATCTTCCTC TAATTGACAG CCTCATTACG GGTCTTACAA AATATGGAAC AGTGTCAGAA 60  
 AAAACCAGAG AACTCGGCAG AGTCTAACAC AGAGGAAACC TAAAAGGACT GATTTAACCC 120  
 AAGATGATTT CCACTTGAAA ATCTTAAAGG ATATTTTATG TGAATTTCTT TCTAATATTT 180  
 TTCAGGCATT AACAAAGGAG ACGGTGGCTC AGGGAGTAAA GGAAGGCCAG TTGAGCAAAC 240  
 AGAAGTGTTT CTCTGCATTT CAAAACCTTC TTCCTTTCTA TAGCCCTGTG GTGGAAGATT 300  
 TTATTGAAAA TCCTACGGTG AAGTTGATAA GGCCTTTTGC TGGATGGGCT TGGGATAAAA 360  
 ACCCTTTCCC AAGTTTTTAAA GGGTTTCAGG TCTTTAAATC CCTGAAATTT TGGGATTCT 420  
 TTCTTGTTCC AGGTTGTTTA AACCTTTTAT TTTTCTCTCC N 461

(2) INFORMATION FOR SEQ ID NO: 51:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 458
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00062

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 51:

GATCTAGCAT ATTTCACTAT TCTGTGGATG AATACATAGT TTGTGGGGAA AACAAACGTT 60  
 CAGCTAGGGG CAAAAAGCAT GACTGCTTTT CCCTGTCTGG CATGGAATCA CGCAGTCACC 120  
 TTGGGCATTT AGTTTACTAG AAATNCTTTA CCTTAAGCAG CACACACATT TACTACACAC 180  
 ACAGNCCTAA CAAAGCACTG TGCTTAGAGG GTAAAAAGGA ATCACAAAC AAGAATCTTT 240  
 CCAAAGTTGT CTCATTGAGC AATGTTAAGG CATCTGTATC AAATTATTTT GGATGTAAAG 300  
 ATTCCTGTGT CTCATAATAT GAATGTATTT TTTGATATAC AAGGAACTG GCCATAAAAA 360  
 TGGTGNGGNA ANCCGCCCN TAATTTTNCC CCTGGGGCCC CAATTGGTNN NNTCNANTCT 420  
 NGGNTTNAGC NTTTGTCTC AAATGGGATN CANTTNNN 458

(2) INFORMATION FOR SEQ ID NO: 52:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 459
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00064

(ix) FEATURE:

## (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 52:

```

GATCTATCAC CCAAACATCG ACGAAAAGGG GCAGGTCTGT CTGCCAGTAA TNAGTGCCGA 60
AAACTGGAAG CCAGCAACCA AAACCGACCA AGTAATCCAG TCCCTCATAG CACTGGTGAA 120
TNACCCCCAG CCTGAGCACC CGCTTCGGGC TGACCTAGCT GAAGAATACT CTAAGGACCG 180
TAAAAAATTC TGTAAGAATG CTGAAGAGTT TACAAAGAAA TATGGGGAAA AGCGACCTGT 240
GGACTAAAT CTGCCACGAT TGGTTCCAGC AAGTGTGAGC AGAGACCCCG TGCAGTG CAT 300
TCAGACACCC CGCAAAGCAG GACTCTGTGG AAATTGGCAC GTGCCACCGN CTGGCGTTTCG 360
NTTGTGGCAG TTACTAACTT TTCTACAGTT TTCTTAATCA AAAGTGGTCT TAGGTAANCC 420
TGTAAGGNA AGGGGTTTAN NAATTTTANG GTTGGTCTN 459

```

## (2) INFORMATION FOR SEQ ID NO: 53:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 458
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

```

(B) CLONE: HUMGS00065

```

## (ix) FEATURE:

```

(D) OTHER INFORMATION: "N"=unidentified base

```

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 53:

```

GATCAGCTGG CCAACTCAGC CAATCCGCAC ATTTAGCTCT CCAACTACCA TACAACGTGC 60
TTGGTTTAGG TCGGAGCGCA AATNTNCTTG ACCATCTCTA CGTTGGTATT CCCCCTCCAT 120
CTGGAGAAAA ATCTATACGA AANCAAGAGT GGAAGTCAAT NATTCCAAAT NCCCAGCTAA 180
TTGTCATTCC ATACCCTCAC AATGTCCCTC GAAGTTGGAG TGCCAAACTG TATCTTACAC 240
CAAGTAATAT TGTNCTGCTT ACTGCTATAG CTCTCATCGG TGTCTGTGTT TTCAATCTTT 300
GGCAATAAAT TGGCATTTTA CCATTTGNCA GGGAAAAGGA AAGGCNNGGTT GGNTTGGGGG 360
GAAAACCGGC CAAGGGANGG CCCCCCGGG TTTTCNATTT TTGGNGGGNT TTTTGGGNNT 420
TTTGCCTTTT TAAANTTTTT CCNAANAAN NGGGANTN 458

```

## (2) INFORMATION FOR SEQ ID NO: 54:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 454
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

```

(B) CLONE: HUMGS00066

```

## (ix) FEATURE:

```

(D) OTHER INFORMATION: "N"=unidentified base

```

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 54:

```

GATCAGTTNC GTGTCCGCNG GAGCAGGCCT TGCTGAGTGA AGACACTGGN ACTAGCTGGG 60
TCCTGGGGTG ACTTGAGGC TTTGGGCCTA AAAGGGCAGC CTGAACCTGG AGTCTTATCT 120
CCCCCAGGAG CCGAAAGCAC TTTTCTTGAT TTCCCCCAGG AAATCAAGCG CTGCTTCTCA 180
GCTCCTGTGG TTTTAGTATT TATATATCTG TATCTTCTTT GTAGAAATTT ATTTATTTTT 240
GAATAAGAAT ACCTGCCTGG ACAAAATTTA AAAGGACGGG AGGGCGAANT GCAAGGGAAG 300
GCCTCTCCTA TGCCGNCCCA GAGNAGCACT GTACCAATTT CATGTGATTC CTTAACTCTG 360
TTTAAGGAAG CTCTGAAACT GTCATTTCCCT TTGCAGATTG TTNTGAACCT GGAAACCCNG 420
AATTTATNGN TAANNCTCAN TTNCCACCNG GAAA 454

```

## (2) INFORMATION FOR SEQ ID NO: 55:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 505

```

(B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00067

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 55:

```

GATCGTTGGG GAACCCAGCC CCTTGGAAC TGGGAAGACCC GTGTTTCCTG GACCCGCGAAT 60
CAGTGTGTTG GGCATCAGTG TTTTCTGCAA GGGTTGTGAC CTGAAACTTT TAAAAACCA 120
CCCACCTTTG GGAAGCATT TCTGAATTTA TCCATCACCA ACCATTTCTT CTTGGATACC 180
ATCAAGTAAC AGCTATTATT TGCCAAGTGG AGCTGTCATT TAATTTGATG CACCTCTGGN 240
TTCAGATGAA ACATTAAATT GTCTTCCTCG ATTCTCCATC GGGTGTAGAG TTTTAAACT 300
ATCANTGGCA TTTCAAGTCT TCTGANACAA CATGGCTGTA TGTGCGTGGT CCATAGCACA 360
GTACATGCAG CATCTAATAA GNGTTTCCAT TTGTAGAATT NTTTTCNCA NACTTNTAGT 420
TAAANNCAAA ATTTTTTAAT TTGNAAANAA GNGNTGNGTT GGTTATTTNN GNTGTTNTTT 480
GTNTNTGGTT GNTNTGTTTA TTNTN
505

```

(2) INFORMATION FOR SEQ ID NO: 56:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 450  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00068

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 56:

```

GATCAGAGAC TGGAGAGGTG GAGTGAGAAG TCTCCGCTGC TCGGGCCCTC CTGGGGAGCC 60
CCCGCTCCAG GGCTCGCTCC AGGACCTTCT TCACAAGATG ACTTGCTCGC TGTTACCTGC 120
TTCCCCAGTC TTTTCTGAAA AACTACAAAT TAGGGTGGGA AAAGCTCTGT ATTGAGAAGG 180
GTCATATTTG CTTTCTAGGA GGTTTGTTGT TTTGCCTGTT AGTTTTGAGG AGCAGGAAGC 240
TCATGGGGGC TTCTGTAGCC CCTCTCAAAA GGAGTCTTTA TTCTGAGAAT TTGAAGCTGA 300
AACCTCTTTA AATCTTCAGA ATGATTTTAT TGAAGAGGGC CGCAAGCCCC AAATGGAAAA 360
CTGTTTTTAT AAAATATGAT GATTTTTGAT TGCTTTTGTA TTTAATTCTG CAGGTGTTCA 420
AGTCTTAAAA AATAANGATT TNTANCAGGN
450

```

(2) INFORMATION FOR SEQ ID NO: 57:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 447  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00069

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 57:

```

GATCTTTGAT AGTNGAGAAA ATTATGCAAA GTTCCTCAGA AGTNGGTTAT NATGCTATGG 60
CTGGNGATTT TGTGAATATG GTGGAAAAAG GAATCATTGA CCCAACAAAG GTTGTGAGAN 120
CTGCTTTATT GGATGCTGCT GGTGTGGCCT CTCTGTTAAC TACAGCAGAA GTTGTAGTCA 180
CAGAAATTCC TAAAGANGAG AAGGACCCTG GAATGGGTGC AATGGGTGGA ATGGGAGGTG 240
GTATGGGAGG TGGCATGTNC TAACTCCTAG ACTAGTGCTT TACCTTTATT AATGANCTGT 300

```

GACAGGAAGC CCAAGGCAGT GTTCCTCACC AATAACTTCA GAGAANGTCA GTTGGAGAAA 360  
 AATGANGAAA AAGGGCTGGC TTGAAANTCA CTNTTAACCN NTTANGGTTG CTTGGGTTTC 420  
 ANGTTGGCCA NAGTTTTNNN TNNTGGN 447

(2) INFORMATION FOR SEQ ID NO: 58:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 445
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00070

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 58:

GATCACTGAG CAGTTTTCCC AGAGCTCCAT GGGAAGGCAA GCTCTCCCTC CCAATGGGAG 60  
 CCCCCTGTC ACTAACTGTA AACTCAGGCT CAGGCTTCAN CTGCCTACCC CCATCCTCAT 120  
 ATTTCTGTCT GTCCCAGCAC CTCAGGAGCA TTCTCATTGT GGCCGGCTAA CTCCGCCTGG 180  
 ATGTGAACAG GCAAGCACAG TGGGAAATNA GTCACGTACT TGTATTGCAC AGTGGACACC 240  
 TCTAGAGGTC CATTGGTTTA AAGGGATAGG GAAGGAGGAG GGATGAGACC ATCTCCCCCT 300  
 CCCAGGAAGT AAATCTAAGT ATCTAAGTT TTCTTTATNG CCTTNGAGTC AAANTANTAA 360  
 CTGGCTAGTA CGGGAGGTGT NTGCTNGGTT TTTTCGGGT GGTTTTTTCC TAATGNAATA 420  
 AACTTCATTT NTTGCNTGNT TGGNN 445

(2) INFORMATION FOR SEQ ID NO: 59:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 459
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00071

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 59:

GATCTTCGGT GGCCTCATGT AAACGTGGCA GCCAGCCTCT TCTAGAACCC TAGCCCAGGG 60  
 ACTGGAGCAG GAAAGGGACC TTCAAAGTGA AGACTGCCTT GTCCCGCAGC TCCTTCTGGC 120  
 TTAGATTGAA ACATGGGCTT CTAATGGGT TAAATCCTTT AAAACAAGGA GTTGTGGGGG 180  
 AAGGGTGTCTG TGCACTCCTA GAGAAAGGTA CACAGTTGCC CGGTTGGGAA TGTGCTTGGC 240  
 GCTGACCCTG CGGGCATCTG ACTGGTCTTC CAGCTCAGGA AAAAGAATTT GAAAGAGGCT 300  
 TAGCGTGAAG GGGAAATCAA GAGGAGGTTG TNATTTNGGT CGAAGGTGCC TTGGTTTAAG 360  
 TCCTNGTAAT TTGTNCTTAT TAATTTTTTT TNATATAATA TNATTTTNTT GGGGGGTAAA 420  
 CCATTTTAA ATTAACCAA CCATTTGTCT TNCTNGAAA 459

(2) INFORMATION FOR SEQ ID NO: 60:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 441
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00072

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 60:

```

GATCAGACAC TTCAAGGTCT AGGCTAGACA TGGCAGAGAT GAGGAGGTTT GGCACAGAAA 60
ACATAGCCAC CATTTTTTCC AAGCCTGGGC ATGGGTGGGG GGCCTTGTCT GCTGGCCACG 120
CAAGTTCACA TGCNATCTAC ATTAATATCA AGTCTTGACT CCCTACTTCC CGTCATTCCT 180
CACAGGACAG AAGCAGAGTG GGTGGTGGTT ATGTTTGACA GAAGGCATTA GGTTGACAAC 240
TTGTCATGAT TTTNACGGTA AGCCACCATG ATTGTTTTCT CTGGCCTCTG GGTTGACCTT 300
ACAAAAACCC ATTTGGAAC TGNNGACTTT GAAANGGTGC TCTTTGCTTA AGGCTTTNAT 360
ATNGNGCCTT GTTTAATTGG GANGGTCNCT TNAAGGCC NTTTCCTTA NTTAANGGNG 420
GGGTTNTTAN GGNTGTAGAA A 441

```

(2) INFORMATION FOR SEQ ID NO: 61:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 436  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00073

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 61:

```

GATCCGTCAC TCTTCCTTGT GGTAATCCCT AGACTGGGAG CTCAGGTACT CTTTTAGTCA 60
TCTTTGTATG TCTTTAGCAG AGTTCTTGAC ATGTGGTAGG TGCTTAATAA ATNNTTGTG 120
TTTATCAAAT TTTATGGTAG GGAGAGTAAG TCAGCATCGG TATAAAATCG CTTACTCCAC 180
GTAACCTCTT TCTGATAGG GTTTGATTTT CTATTAGAAG CTCAATTTTA GTTTTTTTTC 240
ATATTATAAC TAAATATGTT TCCTGAGAGA TAAGAGAAAT AATGTTCCCTA CAATAGTTGT 300
ATGTATCTAA GATAAGACAT ATAGATGCTT AAGACATTTT GTTTCCTTG CTATTCAC 360
GTGTACTTGA ACCATGGTCA TTTTGTAGCC TTTTCCTAGG GACCATGCTT ATTTCTCAAT 420
AAGGAAATAC CTTCCN 436

```

(2) INFORMATION FOR SEQ ID NO: 62:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 434  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00074

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 62:

```

GATCTTTTTT CATCCAGCAG TGGAGTTTAG TACTTAAGAG TTTGTNCCCT TAAACCAGAC 60
TCCCTGGATT AATGCTGTGT ACCCGTGGGC AAGGTGCCTG AATTCTCTAT ACACCTATTT 120
CCTCATCTGT AAAATGGCAA TAATAGTAAT AGTACCTAAT GTGTGGGGTT GTTATAAGCA 180
TTGAGTAAGA TAAATANTAT AAAGCACTTA GAACAGTGCC TGGANCATAA AAACACTTAN 240
TAATAGCTCA TAGCTAACAT TTCCTATTTA CANTTCTTCT AGAAATAGCC AGTATTTTGT 300
TGGAGTGCCT ACNATGTTAG TTCCTTNTAC TAGTTGCTTT ACATGGATTA TCTTNATATC 360
CTGTTTTTAAA GNTTNTTCAC AGGTACCAGG TTTTCATGGA ATTTTCCTTT NANTAAANGG 420
GGAGGNNAAN GNTN 434

```

(2) INFORMATION FOR SEQ ID NO: 63:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 433  
 (B) TYPE: nucleic acid

(C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00075  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 63:

```

GATCTGTGAA TCTTGGCTGG GACTTCCTCT GAGTGATGCC TGAGGGTCAG CTCCTCTAGA 60
CATTGACTGC AAGAGAATCT CTGCAACCTC CTATATAAAA GCATTTCTGT TAATTCATTC 120
AGAATCCATT CTTTACAATA TGCAGTGAGA TGGGCTTAAG TTTGGGCTAG AGTTTGACTT 180
TATGAAGGAG GTCATTGAAA AAGAGAACAG TGACGTAGGC AAATGTTTCA AGCACTTTAG 240
AAACAGTACT TTTCTATAA TTAGTTGATA TACTAATGAG AAAATATACT AGCCTGGCCA 300
TGCCAATAAG GTTCCTGCTG TGTCTGGTTA GGCAGCATTN CTTTGTATGC AAATTTCCCTA 360
TTGGNCCCTN TTTTNTCCA AAAAGGTAAA TGNCTTNAT TNCCCGGTGA AAAAATNNTT 420
CCCNGGNNAT TTN

```

433

(2) INFORMATION FOR SEQ ID NO: 64:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 432  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00076  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 64:

```

GATCCTGGAG GTCTTTTCTA GTCTGAGCTT CTTTAGCTAG GCTAAAACAC CTTGGCTTGT 60
TATTGCCTCT ACTTTGATTC TNATAATGCT CACTTGGTCC TACCTATNAT CCTTCTACTT 120
GTCCAGTTCA AATAAGAAAT AAGGACAAGC CTAACCTCAT AGAAACCTCT CTATTTTAA 180
TCAGTTGTTT AATAATTTAC AGGTTCTTAG GCTCCATCCT GTTTGTATGA AATTATAATC 240
TGTGGATTGG CCTTTAAGCC TGCATTCTTA ACAAACCTCT CAGTTAATTC TTAGATNCAC 300
TAAAANTCTG AGGAACCTCA CATGTAACCTA TTTCTTCAGA GTTTGTCATA TACTGNNTGG 360
CATCTGAATG GCTACTCAGC ATTTGGTTAA CATTNGNGTA AATTTGGAAT AAANTTCCCC 420
AGTAAGCCAT TN

```

432

(2) INFORMATION FOR SEQ ID NO: 65:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 459  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00077  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 65:

```

GATCCATCGC AGAGTCCTAA AGAAGAACCC ACTGAAAAAC TTGAGAATCA TGTTGAAGCT 60
AAACCCATAT GCAAAGACCA TGCGCCGGAA CACCATTCTT CGCCAGGCCA GGAATCACAA 120
GCTCCGGGTG GATAAGGCAG CTGCTGCAGC ANCGGCACTA CAAGCCAAAT CAGATGAGAA 180
GGCGGCGGTT GCAGGCAAGA AGCCTGTGGT AGGTAAGAAA GGAAAGAAGG CTGCTGTTGG 240
TGTTAAGAAG CAGAAGAAGC CTCTGGTGGG AAAAAAGGCA GCAGCTACCA AGAAACCAGC 300
CCCTGAAAAG AAGCCTGCAG AGAAGAAACC TACTACAGAG GAGAAGAAGC CTGCTGCATA 360
AACTCTTAAA TTTGNTTATT CCATAAAGGT CAAATCATTT TGGNCAGCTT CTTTTTTGAA 420

```



TAAAAGNCCT GNTTTATACC AGGGCAGTGA GGAACCAAA

459

## (2) INFORMATION FOR SEQ ID NO: 66:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 626
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00078

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 66:

```

GATCTACAAA GGCCATGGGA AAAATTCAGA GAGTTAGGAA GGAAAAACCA ATAGCTTTAA 60
AACCTGTGTG CCATTTTAAG AGTTACTTAA TGTTTGGTAA CTTTINATGCC TTCACCTTAC 120
AAATTCANGC CTTAGATAAA AGAACCGAGC ANTTTTNTGC TAAAAAGTCC TTGATTTAGC 180
ACTATTTACA TACAGGCCAT ACTTTACAAA GTATTTGCTG AATGGGGACC TTTTGAGTTG 240
AATTTATTTT ATTATNCCCG TTTNGTTTAA TGICTGGTGC TNNCTATCAC CTCTTCTAAT 300
CTTTTAATGT ATTTGTTTGC AATTTTGGGG TAAGACTTTT TTATGAGTAC TTTTCTTTG 360
AAGTTTTAGC GGTCAATTTG CCTTTTAAAT GANCATGTGA AGTTATACTG TGGGCTATGC 420
ACCAGCTCTC ACCTACNGGG GGNCTTACCT TGGGGGTAGN GNCCATACCA GNCCACTGTA 480
TGTTTACTTC CTCACCCATT TGGNGTTGCC CCANCTTGGT TNAACACTNG GGCANCATTN 540
TGGTTTNAGG GGNCCTTAGG GTTNACCAGN TCNTTTTAAAC NGGNTATTTN CCCGGGGTTT 600
TTTNAAANTG GCCCAAAATN CTTAAA 626

```

## (2) INFORMATION FOR SEQ ID NO: 67:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 534
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00079

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 67:

```

GATCAACAGT TCTAGTACTC TTCTTTGTCA GTATATCAAC CTACAGCTAT TGAATGCAAA 60
GCCACAAGAG TGTTTAATGG GGACAGTGGG CACTCTCCTG CTTGAAAACC CACTTGGGCA 120
GAATGGACTC ACCCACCAAG GTCTTCTGTA TGAAGCAGCC AAGGTGTTTG GCCTTCGGAG 180
CAGGAAGCTA AAGCTGTTTC TGAATGAGAC CCAAACGCAG GAAATTACAG AAGACATCCC 240
CGTGAAGACT TTGAATATGA AGACTGTGTA TGTTTCTGTG TTACCAACAA CAGCAGACTT 300
CTAGCATGTA CTTATCAATG TTGTTGCGTC AGCCCTTCCC TAATTACACC TATCCCCTAC 360
ACATACATGC ACATAGNCAC ACACATGNAC AACTTGAAG GTATTTCTTT CAAGGTGTGT 420
GTAAAAATAT GCTGCTTGGN TTTGAATTCA AATGGGGTTG NTTAGGTCAA GTACTTTGNG 480
GCCTNANAGG NATCTTCACA CTTAACCTTA GGCACTTTTG ANGCAATTGTT GGGN 534

```

## (2) INFORMATION FOR SEQ ID NO: 68:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 417
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00080

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 68:

GATCTTAGTT GATATTTTGG GCTTGGGGCA GTGAGGGCTT AGGACACCCC AAGTGGTTTG 60  
 GNAAAGNAGG AGGGGAGTGG TGGGTTTATA GGGGGAGGAG GAGGCAGGTG GTCTAAGTCC 120  
 TGA CTGGCTA CGTAGTTCNG GGCAAATCCT CCAAAAGGGA AAGGGAGGAT TTCCTTAGAA 180  
 GGATGGCGCT CCCAGTGA CTCTTTTGAC TTCTGTTTGT NTTACGCTTC TCTCAGGGAA 240  
 AAACATGCAG GTCCTCTAGT GTTTCATGTA CATNCTGTNG GGGGGTGACA CCTTGTTTCT 300  
 GGTTAAACAA GCTGTACTTT TAATAGCTGT TNCAGGAAGG GTTAAGGCCA ACTACAAATT 360  
 AATGTTGGTT GCAAATGTAG TGTGGTTCCC TAACTTTNCG GGGTTTTCCT GAGGAAA 417

## (2) INFORMATION FOR SEQ ID NO: 69:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 417  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00081

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 69:

GATCTGCCTG CCCACCAACT GGTGATGGAA GGTTACAAGT GGCACCTCAA TGAGACGGTG 60  
 CTCCTGTGT GGTGCGGACC AACTACTGCT ACCGTGTGGG AATGTGGCAG CATCTTGAG 120  
 CTGGACGAGC ATCTCCAGAA AGATTTTCATC ATCTTTGAGC TGCTCCCAAG AGCACGGGGC 180  
 ATCCCTCCAA GAGCCGTGCC GCTATTCCTG TGACCCGCCG GCCTGCCCTC ACCTTTGGCT 240  
 CGACATGTGC TTGCATTTCT AGCGAGCTGG CGTGGGGGCT GTCTGGTTGT GTCCCAAGAG 300  
 GTGTTGAGGT AGGTNTTGAG AGCTGAGACT AGTCATGTCT CTCTTTCCAT TACATGAGTT 360  
 CATATTTTNN TTTTCTNTTT TGTGTTAGTA ATTTGGAAAT GAAATTATAA GGAATGN 417

## (2) INFORMATION FOR SEQ ID NO: 70:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 415  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00082

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 70:

GATCTTTCTG GGAACACAGC CCNGCTGGCG GCTAACCTGC TGTTTGAGAT GCTATGTGCT 60  
 CTCCCCAAG TGACAAACCGT CTGAGTCTTG TGCTCTTCAA GACAAAACAG ATTGCGTCGC 120  
 TGACAAGTTC TCAAGAAGAA CTTATGAGTA AGCAGTCTGA GAACTAAAGA GTTTATGCCA 180  
 AGAAAAC TTT CTGCTGAAAG TGTCATTGCT GGCTGTGAAG TCGGGATAAT CAGTAGAATT 240  
 CTCACCCAAA CAGCAACATT TCTAAGGAAC TTGGATTAAT TGGGGGAAAA AAAANGGGGT 300  
 ACTTGACTG CTTTGATTG TTTTCCTTTG GNTGAAAAGN TGGGGGGTTA AANGGGGGAT 360  
 NGTGAGGGGG ANTTTNNCTT TNNAGGGNTT TTTTNTNANC CCATTNNGN NTNCN 415

## (2) INFORMATION FOR SEQ ID NO: 71:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 415  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00083

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 71:

```

GATCAGAATC ATTAAAAAAT ATTTTGTGTT AGTAAGTTTG AAGATTTCNN GCTTTNAGGC 60
CTTTCCTATT TTGTCCCAT TATTTTNNCA GGCAATCTTT TCCATGGAGG GCAGGGTATC 120
CATTCTTTAC CATGGGTGTA CCTGCTTAGG TTAAAAATCA TACCAAGGCC TCATACTTCC 180
AGGTTTCATG TTGCGTCTTG TTGAGGGAGG GAGAGCAGGT TACTTGGCAA CCATATTGTC 240
ACCTGTNCCT GTCACACATC TTGAAAAATA AAACGATAAT AGANCTAGTG ACTAATTTNC 300
CCTTACAGTT CCTGCTTGGN CCCACCCNAC TGNGGGTNGG CTCCATTGGT NNGTTCCGGG 360
GCCGTNNTTT AGGGGNNANT TGGGGGNTCG GTTAGGCCTN TNGGTTTGGG GAAAN 415

```

(2) INFORMATION FOR SEQ ID NO: 72:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 410

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00084

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 72:

```

GATCTCCCN CTCTAGGGGT CAGGCTCCAT TAGGATTTGC CCCTTCCCAN CTCTTCCTAC 60
CCAACCACTC AAATNAATCT TTCTTTACCT GAGACCAGTT GGGAGCACTG GAGTGCAGGG 120
AGGAGAGGGG AAGGGCCAGT CTGGGCTGCC GGGTTCTAGT CTCCTTTGCA CTGAGGGCCA 180
CACTATTACC ATGAGAAGAG GGCCTGTGGG AGCCTGCAAA CTCACTGCTC AAGAAGACAT 240
GGAGACTCCT GCCCTGTTGT GTATAGATGC AAGATATTTA TATATATTTT TGGTTGTCAA 300
TATTAAATAC AGACACTAAG TTATAGTATA TCTGGACAAG CCAACTTGTA AATACACCAC 360
CTCACTCCTG TTACTTACCT AAACAGATAT AAATGGCTGG TTTTGTAGAA 410

```

(2) INFORMATION FOR SEQ ID NO: 73:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 406

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00085

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 73:

```

GATCGTGACG CTGAATAAAT GTCTTTTTTT TAATGTGCTG TGTAAGTTA GTCTACTCTT 60
AAGCCATCTT GGTAAATTTT CCAACAGTG TGAAGTTAGA ATTCCTTCAG GGTGATGCCA 120
GGTTCTATTT GGAATTTATA TACAACNGC TTGGGTGGAG AAGCCATTGT CTTCCGAAAC 180
CTTGGTGTAG TTGAACTGAT AGTTACTGTT GTGACCTGAA GTTCACCATT AAAAGGGATT 240
ACCCAAGCAA AATCATGGAA TGGTTATAAA AGTGATTGTT GGCACATCCT ATGCAATATA 300
TCTAAATTGA ATAATGGTAC CAGATAAANT TATAGATGGG AATGAAGCTT GTGTATCCAT 360
TATCATGNGT AATCAATAAA CGGNTTNAAT TCNCTTGGAN TGGAAG 406

```

(2) INFORMATION FOR SEQ ID NO: 74:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 408  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00086  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 74:

```

GATCACATTG TAAAACTATG GATGGTCTGA TAAGGCTTTN ACTGACCCCA CTGACTTCAG 60
AGTTATACTC TGTTTGCNAC ATCATAATGC TGGTTTTCCT GACTTTTGTG NTTTTAATAT 120
ATTTATAAAA AAAGAAAAAG TTGGTGATTG CATTGGGAAA TTCCCAGGGT ATTACTGGAC 180
CTATGTGGTG TATTGTTAAA CCAGTGTCCT TGTNATACTG TTGCTCTTGA TGTCCTGAT 240
ACAGGTAAGG ANGCAAGTTGG TCAACTCTNA TACAAAGTAT ATATACAGTT CAGTATTGTC 300
TCTGTTTATT TTGTTTTAAT TTCATTGGNC AAANTCAANC CAGCATTCCC CATTGTGTGA 360
AATAAATGAT TTTCTCGGAA TAAAAGGNAA AGGNCTTNA ATTCCAAA 408

```

(2) INFORMATION FOR SEQ ID NO: 75:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 407  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00087  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 75:

```

GATCAAACCTA GCTCAGGCCA AACTTTAAGT TCATACCTGA GCTAAGAAGG ATAATTGTCT 60
TTTGGTAACT AGGTCTACAG GTTTCNATTT TTCTGTGTGA CACTCAAGGA TAAAGGCAAA 120
ATCAATTTTG TAATTTGTTT AGAAGCCAGA GTTTATCTTT NCTATAAGTT TACAGCCTTT 180
TNCTTATATA TACAGTTATT GCCACCTTTG TGAACATGGC AAGGGACTTT TTTACAATTT 240
TNATTTTATT TTCTAGGTAC CAGCCTAGGG GATTTCCGGT TAGGTACTCA TTTTGTATTC 300
ACTGTCACCT TTTCTCATG GTCCTAATTA TAAATNGNCC CAAAATCAAG GNTTGCCTNA 360
AAAAGGGGNN AAAATGGTTG GCCCCNNGGT TTTTNGNNNC CCCNGTN 407

```

(2) INFORMATION FOR SEQ ID NO: 76:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 413  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00088  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 76:

```

GATCTACCGA CTCATTCTG AGAATATTTT TNACAGATTA TCTTTGGGCC TTTCCATTAG 60
AAAGCTGTTT GTTTGTCCCC CTGTTGGTAC ATTTGGTTAC CTCATTTTGC CGTTTCAAAT 120
TGTAAGGCT CACAGGGGTG TTTTTTGGAA TCATTTGCTG AGTCATTTTC TCAAATCATA 180
TTCCATTGTA TCAGTTAACA TATAGTTTTA AATGTATGTA TTATAAATNT CTGTANCCAA 240
ATCATTGAA GGCTTGATAA ATTTNTAACA ANGTTTGTAC ATTTNTCATG AAAGTCACTA 300
GTAATGCTNG GNGNGGTAGT GCAATGGANT TTTCCNTTTT TCNTCCCTGT GCCCATTTTG 360
GAGTTGAGAG GGTGTNGGT AATNACTGT ATGGTGTACA NTGNANCCNA NNN 413

```

## (2) INFORMATION FOR SEQ ID NO: 77:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 417  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00089

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 77:

```
GATCGGCAAG CCNCNCACTG TCCCTTGCAA GGTGACAGGC CGCTGCGGCT CTGTNCTGGT 60
ACGCCTCATC CCTGCACCCA GGGGCACTGG CATCGTCTCC GCACCTGTGC CTAAGAAGCT 120
GCTCATGATG GCTGGTATCG ATGACTGCTA CACCTCAGCC CGGGGCTGCA CTGCCACCCT 180
GGGCAACTTC GCCAAGGNCA CCTTTGATGC CATTTCTAAG ACCTACAGCT ACCTGACCCC 240
CGACCTCTGG AAGGAGACTG TATTCACCAA GTNTCCCTAT CAGGGAGTTC ACTGACCACC 300
TCGTCAAAGA CCCACACCAG AGGTCTCCGT GCAGNGGACT TCAGGNTNCA GNTTGTGGTT 360
ACAACATAGG GGNTTTTTAT ACAANGGAAA NGTAAAGGTG NNNTTAAAGN GGTGAAA 417
```

## (2) INFORMATION FOR SEQ ID NO: 78:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 404  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00090

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 78:

```
GATCAGAAGA AACACTCCAA AAATTGAGAT GAAATGTTGG TGCAGCCAGT TATAAGTAAT 60
ATAGTTAACA AGCAAAAAA GTGCTGCCAC CTTTTATGAT GATTTTCTAA ATGGAGAAAC 120
ATTTGGCTGC ATCCACATAG ACCTTTATGT TTTGTTTTCA GTTGAAAAC TGCCTCCTTT 180
GGCAACATTC GTAAATNAAG CAGAATTTTT TTTTCTCTTT TTTCCAAATA TGTTAGTTTT 240
GTNCTTGTA GATGTATCAT GGGTATTGGT GCTGTGTAAT GAACAACGAA TTTTAATTAG 300
CATGTGGTTC AGAATATNCA ATGTTAGGTT TTTAAAAAAG TATCTTGATG GTTCTTNTTC 360
TATTTATAAT TTCNGACTTT CATAANGTGT ACCCANGANT TTCN 404
```

## (2) INFORMATION FOR SEQ ID NO: 79:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 622  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00091

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 79:

```
GATCCCCGCA ACTCGCTTGT CCTTGGGTCA CCCTGCATTC CATAGCCATG TGCTTGTCCC 60
TGTGCTCCCA CGGTTCCCAG GGGCCAGGCT GGGAGCCCAC AGCCACCCCA CTATGCCGCA 120
GCGGCCCTAC CCACCTTCAG GCAGCCTATG GGACGCAGGG CCCCATCTGT CCCTCGGTCTG 180
CCGTGTGGCC AGAGTGGGTC CGTCGTCCCC AACACTCGTG CTCGCTCAGA CACTTTGGCA 240
```

```

GGATGTCTGG GGCCTCACCA GCAGGAGCGC GTGCAAGCCG GGCAGGCGGT CCACCTAGAC 300
CCACAGCCCC TCGGGAGCAC CNCACCTCTG TGTGTGATGT AGCTTTCTCT CCCTNAGCTG 360
CAAGGGTCCC GATTTTGCCA TCGGAAAAAG ACAACCTCTA CTTTTTTNCT TTTGTATTTT 420
TGATAAACAN TTGAAGNTTG GAGCNTGTTA AAATTTATTN TTTGGGGGGA AACCTNAAGA 480
ACTGGGNCTT AATTINGGNG TTCGTGGGAC CCTNTTANNT GGTTTTNAAT NAANCGGTTA 540
NGGAATTAAA CTGTTTGGGA ANANTTGGTT TAAAGNTTTA AAATTTTGGG AAAAAAAGGG 600
GCTTTTTTAA TTTTTTGGGT TN 622

```

## (2) INFORMATION FOR SEQ ID NO: 80:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 400
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00092

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 80:

```

GATCTTCCTT TNTTCTNTGA ATGNGCTCTG TTGNCTTTTT CTCTTTTTTC TCATGTGTTC 60
TTCCCTCCAC CTCCACCCCT TTCTTCTTT CTCTCTCTGA TTGAGAGGCA TTNAATTACG 120
TTTTCAGTAG TACAGGCTTC TTGCCGATAT GAAGGGAAGT TTTCAGAAAG AGACCTACTC 180
TGGGTCAATT AATTTTGAAT ACAGTTTTCA ATCGTTCAAG TTTTGGNNNG NTTATATCTA 240
ATGTGTGTTT CATTTTTTTG GAAAGCTATA TTTTGTATTT AGGAAATGGT ATACTATTTT 300
GCTATTTGTA CTGAGTGAGT ACATTGGCAT AAATATAGAA ATTTATATAT ATACATATAT 360
ATAACTGTGC TNNTTGCCCT TTTTNNTGNG GGAAATTGGN 400

```

## (2) INFORMATION FOR SEQ ID NO: 81:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 396
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00093

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 81:

```

GATCAGACTG TGGCATTGTA AATGTCAACA TTCCAACAAG TGGGGCTGAG ATTGGAGGTG 60
CCTTTGGAGG AGAAAAGCAC ACTGGTGGTG GCAGGGAGTC TGGCAGTGAT GCCTGGAAAC 120
AGTACATGAG AAGGTCTACT TGTACTATCA ACTACAGTAA AGACCTTCCT CTGGCCCAAG 180
GAATCAAGTT TCAGTAAAGG TGTTTTAGAT GAACATCCCN NAATTTGAGG GTGTTCCAGC 240
AGCTGTTTTT GGAGAAGACA AAGAAAATTA AAGTTTTCCC TGAATAAATG CATTATTATG 300
ACTGTGACAG TGAATAATCC CCCTATGACC NNAAAGNCCT GATTAAATCA AGAGATTCCT 360
TTTTTAAAAA TCAANTAAAA TTGTNACACC ATAAAA 396

```

## (2) INFORMATION FOR SEQ ID NO: 82:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 400
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00094

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 82:

```

GATCGATGGT TGACAATCCA GAGTGGTGAA CAGCCCTACA AGATGGCTGG TCGATGCCAT 60
GCTTTTGAAG AAGAATGGAT AGAATGTGCA CATGGAATNG GTTATACTCG GGCAGAGAAA 120
GAGTGCAAGA TAGAATATGA TGATTTTCGT GAGTGTTCGC TTCGGCAGAA AACGATGAGA 180
CGTGCAGGTA CCATCAGGAA GCAGCGGGAT AAGCTGATAA AGGAAGGAAA GTACACCCCT 240
CCACCTCACC ACATTGGCAA GGGGGAGCCT CGGCCCTGAA CAGAGCAGCT GCTGATGTCT 300
GGAGGCTGAT TTTCTGTTC TCTGTTCTCC ACTGGAAAGG TTGTTTACGA CAAACCTCCT 360
TGTCAAAGTN TGTAATAATA AAGGATTGCT CCATCCTAAA 400

```

## (2) INFORMATION FOR SEQ ID NO: 83:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 397
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00095

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 83:

```

GATCTGGGCA CTGTACTTNA GCCTGGGCGA CAGAGAGACC CATCTCAAN AAAAAATTGG 60
AACCTGAGAA GGGGGTCGTG GGGTCCCCGG GGCCACCGT CTGCACTTGG NATCTNAAGT 120
CGGGGTGGNC TTGTGGGACT NACCCNTTAC CCTGTGGGTT CTGTACTAGC TCCGGGNAAT 180
TGGTGACAGA NTCGAGTTAA ATTGTAGGAC ATCGCGTTGG TGTCTGAGAG GGAGTTGGAG 240
AGCTGGTTGG TGTGGAGGGA AAGGNTTACA CACATGTNAT TTCAGAAGCG TTCTGTGGGT 300
AGAGGAATCG TTTTCTCTTT GAGACTGTTA TGAGTATGTA CAAATTTTAT TTCTGTAAA 360
AATATTNCA TTTTAAAN TGGTTATTTT CTAGAAA 397

```

## (2) INFORMATION FOR SEQ ID NO: 84:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 390
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00096

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 84:

```

GATCGAAGAT TTATCCAGC AAGCACAAC AGCAGCTGCT GAGAAATTCA AAGTTCAAGG 60
TGAAGCTGTC TCAACATTC AAGAAAACAC ACAGACTCCA ACTGTACAAG AGGAGAGTGA 120
AGAGGAAGAG GTCGATGAAA CAGGTGTAGA AGTTAAGGAC ATAGAATTGG TCATGTCACA 180
AGCAAATGTG TCGAGAGCAA AGGCAGTCCG AGCCCTGAAG ANCAACAGTA ATGATATTGT 240
AAATNCGATT ATGGAATTAA CAATGTAACC ATATGGANGC AACTTTTTTT TGGTGTCTCA 300
NAGGNGTAAC TGCAGCTTGG TTTGAAANTT TGTTACCTTG TTTCTTATCA TAAAATNAAN 360
NGTTATTNGC TTCCTTTTTT GGNTTGGAAA 390

```

## (2) INFORMATION FOR SEQ ID NO: 85:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 392
(B) TYPE: nucleic acid
(C) STRANDNESS: single

```

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00097

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 85:

```
GATCACTTTC ACTNTCAATT ATTTGCCAGG NCTCACAGAA CTCAGAAAAG CTCAGANCAC 60
TCATGGTTAC TATTTAGTAA AGCAAAAAGA CACAAATNAA AATNAGCAAG TTTGGCCGGG 120
ATTGCAGGCA TGAGCCACTG AGCCCGGCCC CCAACTGTTA CATCAAAATA TTATTTGAGA 180
GTATATGTGT CCTCACGTCC CTAAAACACT AGAAACTGTC AANCTTTTAA TCTTTGTCAA 240
ACTCTCAAAA GTAGTATCTC TGCATTTGCA TGCCTTTGNG TNCTAATAAG GTTGAGTACT 300
GCTTTAAAAG TTTGCTGGNC ATCTNTTTGN TTTTTTTAAG GACCTGCGGT GGNAGGCC 360
NTTCAANANA TTNTTTCNTT AATTNGGGCC TN 392
```

(2) INFORMATION FOR SEQ ID NO: 86:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 393

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00098

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 86:

```
GATCAGTCTG GCTGGTGGTT TAACAGGTGT CACTCTGCAA ACCTGAATGG TGTATACTAC 60
AGCGGCCCCCT ACACGGCTAA AACAGACAAT GGGATTGTCT NGNACACCTG GCATGGGTGG 120
TGGTATTCTC TGAAATCTGT GGTTATGAAA ATTAGGCCAA ATGATTTTAT TCCAAATGTA 180
ATTTAATTGC TGCTGTTGGG CTTTCGTTTC TGCAATTCAG CTTTGTTTAA AGTGATTTGA 240
AAAATACTCA TTCTGAACAT ATCCATGCGC AATCATGATA ACTGGTTGTG AGNAGTGCTT 300
TTCATTCTTC TCACTTGCCT TTGTTACTTA ATGTGCTTTC AGGACAGCAG ATATGCAATA 360
TTCACCAAAT AAATGTAGGC TGGTGGTAAT AAA 393
```

(2) INFORMATION FOR SEQ ID NO: 87:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 391

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00099

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 87:

```
GATCCAGAAA TACTTAACAC GTGAATATTT TGCTAAAAAA GCATATATAA CTATTTNAAA 60
TATCCATTTA TCTTTTGTAT ATCTAAGACT CATCCTGATT TTAACATCA CACATGAATA 120
AAGCCTTTGT ATCTTTCTTT CTCTAATGTT GTATCATACT CTNCTAAAAC TTGAGTGGCT 180
GTCTTAAAAG ATATAAGGGG AAAGATAATA TTGTCTGTCT CTATATTGCT TAGTAAGTAT 240
TTCCATAGTC AATGATGGTT TAATAGGTAA ACCAAACCCT ATAANCCTGA CCTCCTTTAT 300
GGTTAATACT ATTTANGCAA GGANTGCAGT ACAGATTTGG NTACAGTACG GATTTGNCCA 360
AATAANTTCA NTAAAAGCCT TAAAGCTGAA A 391
```

(2) INFORMATION FOR SEQ ID NO: 88:

(i) SEQUENCE CHARACTERISTICS:



(A) LENGTH: 390  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00100  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 88:  
 GATCAACCCA CAGAACAAAG CGGATTTCCA AGGCATCTCC CCAGAGCGAG CCTTTGCTGA 60  
 TTTTCTCTTT GCCAGCACCA TCCTGCACCT TGTGTGCATG AACTTTGTTG GCTGACTCAT 120  
 TCTCATTTAC TTAATTGAGG AGTAGGAGAC TAAAAGAATG TTCACTCTTT GAATTTTCCTG 180  
 GATAAGAGTT CTGGAGATGG CAGCTTATTG GACACATGGA TTTTCTTCAG ATTTGCACTT 240  
 ACTGCTAGCT CTGCTTTTTA TGCAGGAGAA AAGCCCAGAG TTCACTGTGT GTCAGAACAA 300  
 CTTTCTAACA AACATTTATT AATCCAGCCT CTGCCTTTCA TTAAATGTAA CCTTTTGCCT 360  
 TCCAAATTAA GGACTCCATG CCACTCCTCN 390

(2) INFORMATION FOR SEQ ID NO: 89:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 390  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00101  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 89:  
 GATCTTTCTN AATGTGTATT GATTGGTCTT TTCAGCTACT CTGAACAGAT TACTAAGGCC 60  
 ATCTCCTCAT CTCTAAGGGA GAAAAATAGT CTGTAGATGA ATAATGTAAG GTAAAGAGTT 120  
 GCATGTCAGT CTTTGTAATN ATTTACACTT TAACTTTCTC CAGAACTCAG ACATGATTTT 180  
 AACATGGTGT TAGATTTGTG CATTNNATTT TCCTGACCAC CTCATTCCAG CCAATGTATG 240  
 GTTATCCACT CTGTGTGCNA AANCCAATCA TGCNTTTCAC GGCCCTTTAG TTCAGAGAAG 300  
 TTCTGCACTG ATTTTGTAGT TCTTGATGTC TCAATCTTAC ATGTATACCA ATCACAATGG 360  
 AATAAAAAGT GTTTGAGGTT GTACTGTGGN 390

(2) INFORMATION FOR SEQ ID NO: 90:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 391  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00102  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 90:  
 GATCCGAGGA GGCGGAACAA GTCCACGGAG TCCCNNGCAG GCCAACGTGC AGCGGCTGAA 60  
 GGAGTACCGC TCCAAACTCA TCCTCTTCCC CAGGAAGCCC TCGGCCCCCA AGAAGGGAGA 120  
 CAGTTCTGCT GAAGAACTGA AACTGGCCAC CCAGCTGACC GGACCGGTCA TGCCCGTCCG 180  
 GAACGTCTAT AAGAAGGAGA AAGCTCGAGT NATCACTGAG GAAGAGAAGA ATTTCAAAGC 240  
 CTTCGCTAGT CTCCGTATGG CCCGTGCCAA CGCCCGGNTC TTCGGCATAC GGGCAAAAAG 300  
 AGCCANGNAN GCCGCAGANC AGGATGTTNG TAAGGAAANN ATTTANAGCC CCTCCTGGGN 360  
 GACCTTTGGG ATTCAGTCGN CAGTCAATAA A 391

## (2) INFORMATION FOR SEQ ID NO: 91:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 391  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00103

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 91:

```
GATCTGTGCC AAGCTCAGGG TGTAGCGCTG CAAACGATGA AGCAAGAGAT TCTCATTAAC 60
CTTGTGAAGC AAAAGCCACA AATAACAGAG GAACAACCTG AGGCTGTCAT TGCAGATTTT 120
TCAGGCCTGT TGGAGAAATG CTGCCAAGGC CAGGAACAGG AAGTCTGCTT TGCTGAAGAG 180
GGACAAAAAC TGGNGNCAAA AACTCGTGCT GCTTTGGGAG TTAAATTAC TTCAGGGGAA 240
GAGAAGACAA AACGAGTCTT TCATTCGGTG TGAACCTTTC TCTTTAATTT TAACTGATTT 300
AACACTNTTT GGTGAATTAA TGAAATGNTA AAGACTTTTT ATGTGAGATT TTCCTTATCA 360
CAGAAATNAA NTNTCCTCCA AATGTTAATA N 391
```

## (2) INFORMATION FOR SEQ ID NO: 92:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 385  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00104

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 92:

```
GATCTTTTCC CCTGGCCAAA GGAAGTTGT ATTAGTCTGT GACATCTTGT GATGCTGTTT 60
ATCTTGGTTT GACATTGGAG ATACGCTAGT AACTGTGATA CCATACTATA AAACAGAAGA 120
ATTTTCTGCT ACTAAAACT GCCTTTTAC AAAATGACTG TAAATATTTG TAAAATAAAA 180
TAACACTAAA CTTTAAGCCC AAAAGGAGAG ATAGAGCCAT GTGTTCAAGT GTGGACCTGT 240
CCGTGGGGCA CAGTGCCACC CCATCACAGT GTTGCTGTCA TCAGGCAAAN GTGAATGTTT 300
GTTTATGGCA AATTGCNCTT TTGCGAATGG CTTANTTCTG AACTACCTT TCTGGGAAAT 360
GTTAATANAT TTTTAATTNT TCAAA 385
```

## (2) INFORMATION FOR SEQ ID NO: 93:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 381  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00105

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 93:

```
GATCTTTGAT AGTTTTGGTG AACTCTCTAA AATACATTC AAGTGGGTCC GACGCAATTT 60
ATAAAAAATNA TGTACTCAAG AAGGGAGACC TGTTTGTTTC ATTTCTCATC TGTTTGGGAG 120
ATGATTTTAG AGCACTAGAA AGGCACTGGG GAGATTCTCA GCTTAAAACA TCCAGCAGTT 180
TGAAGTATGA TTAGGTACAT CAGGGCTGCA TTGTCAATNT TCTCTTTAAG TCTTTTAACA 240
```

TTTATAGCAA TTTTTTTTTT CCCGGAGAGT TTAGGTTGCA AGTTTTGGGT TTCTTGTTTG 300  
 TTTTGTGTTT GCTTCCTGCT TTAATNCTTN AATTNCACT CATTACTGGT ATTGAAAAAT 360  
 AAAATATCTT TAAANCANNG N 381

(2) INFORMATION FOR SEQ ID NO: 94:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 380  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00106

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 94:

GATCTAAGAG ACTCAAGAGC TGGGTTTCTT TCAGCACTCT GTACTGTCCC AAATAGCAAA 60  
 CAAATNACTT TGTAAGCAGA TTTCTGAATG GAAATNAGAA ATTGAATTCT CCATGGACTT 120  
 TTAGGTTTAT GGGGGAGTTT TAGCTGTGTT TCTTGGTTTT ATTCAGCCA AACATGTCTG 180  
 CTTTTGATTT TTTTTTTAAA GTATAAGTGG TCTATATATA TGTTACCTT TTAAATGTAA 240  
 ATGTTTAAAA AGTAAGCATT TATGTGTTTC CATAACTGAC ATCTGATGCA GACCTCATTC 300  
 TCTCCCCCTC TTCTACCTC CTCTTTTCCC CCTTTTCAAT ACTCTTGAT TGGGTTCTAA 360  
 TAAATGGGT TGCTTTTTCN 380

(2) INFORMATION FOR SEQ ID NO: 95:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 379  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00107

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 95:

GATCCATACT TGGATGATAT TGATGATGAG ATGGACCCAG AGATAGAAGA AGCTTATGAA 60  
 AAGTTTTGTT TGAATCAGA GCGTAANGNA NAACAGTAAA GTTAAATTTT AGCATATCAG 120  
 TTTTATAAAG CAGTTTAGGT ATGGTGATTT AGCAGAACAC AAGAGAGCAA GAAAATGTGT 180  
 CACATCTATA CCAAATTGAG GATGTTGAGT TATGTTACTA ATGTATGCAA CTTTAAATTTT 240  
 GTTTAACTAT ATCTGCCAAA ATAAACTTTA TTCCCTATAA CTTAAATATG GTATATATAT 300  
 ATAATAGTTT ATTATGTACA GTTAATTCTA CTGTTTTGGC TGCAATAAAA TCGATTTTGG 360  
 AAATAAATGG AATGTTTGGN 379

(2) INFORMATION FOR SEQ ID NO: 96:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 384  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00108

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 96:

GATCTTTGCT GGCAAGCAGC TGGAAGATGG ACGTACTTTG TCTGACTACA ATATTCAAAA 60

```

GGAGTCTACT CTTTCATCTTG TGTTGAGACT TCGTGGTGGT GCTAAGAAAA GGAAGAAGAA 120
GTCTTACACC ACTCCCAAGA NGAATAAGCA CAAGAGAAAG AAGGTTAAGC TGGCTGTCCT 180
GAAATATTAT AAGGTGGATG AGAATGGCAA AATTAGTCGC CTTGTCGAG AGTGCCCTTC 240
TGATGAATGT GGTGCTGGGG TGTTTATGGC AAGTCACTTT NGNCAGACAT TATTGTGGCA 300
NATNTTGTCT GACTTACTGG TTNCAACAA CCCAGAAGNC ANGTNAACTG TNTGANGTTN 360
ATNAAAAGNC ATGTNCTGAA CAAA 384

```

## (2) INFORMATION FOR SEQ ID NO: 97:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 583
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

```

(B) CLONE: HUMGS00109

```

## (ix) FEATURE:

```

(D) OTHER INFORMATION: "N"=unidentified base

```

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 97:

```

GATCCTCATG AATGACTATC CTAAATTTAA GTATGCAGTT CTNTTTTTTGC TGGGTTTATT 60
CGTGCTGGTT CATCGNGAGT NAGANGCCTG CCTTGCTGTT CCTGGGAAGA TGCCATAGTT 120
TTCGTTACTG GATGTTTGGG GTAGATACTG GTCTGTNATT GGTGGAATGG AGAACACACG 180
TGTTGGTGCT TCTGGGTAGC ACTGGTTTGC ATTAGTTTAT GTTTCCATGC CAGAGTTTGT 240
GTGGGCGGGC GCATGTCCAC CACAGAGTGC ACTCGAGGGG ACTTTCAGTC ACAGGATTTT 300
ATAATTGTNA TTGTCACACT TTCAAATTTT TGTACATCAG TGAATTTTTT TTATATTAAA 360
AGGTTGAGCC AAAGCCCCCA GTGTTTGTGA TTTTGAAGCC AAGCTTCACT TCTAAAAGTG 420
CCTACAGAGG ACTTGTAATA TGGAAAATGC AGCTCTGCAC GGAGTTTGAA ACCGTCATAC 480
CTCCTTCTAT TAGGGAAATNG GCATATACTG AGGGTGGTCC GGAAGNNNTT AACTTCCTAA 540
AATTTTTTAAA TAAAAGGCCT TTGCACCATT GGACCCNTT AAA 583

```

## (2) INFORMATION FOR SEQ ID NO: 98:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 370
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

```

(B) CLONE: HUMGS00110

```

## (ix) FEATURE:

```

(D) OTHER INFORMATION: "N"=unidentified base

```

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 98:

```

GATCAAGAAA AGCAACTTAT GGAAACAACT ACAGAATTTA CAAAAAGGA TACTCAAACC 60
AAAAGTATTA TTTCAGAGAC CAGTAATAAA ATTGACGCTG AAATTGCTTC CTAAAAACA 120
CTGATGGAAT CTAACAAACT TGAGACAATT CGTTATCTTG CAGCTTCAGT GTTTACTTGC 180
CTGGCAATAG CATTGGGATT TTATAGATTC TGGAAGTAGT ATTAATGCTC ATCCTGCTGT 240
GGCTGTTGGC TTCTTAGAAC ACCAAACCGG GAGAGATTTA CTTTGAACAT TGTCAGTTGC 300
AGCAAAATTA TACTACACAA GATTATTCGA AGTGATACG GACTAAAAGA GGAAGTGTTC 360
TAGAATGAAA 370

```

## (2) INFORMATION FOR SEQ ID NO: 99:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 384
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00111

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 99:

GATCTGAAGA GCGTCCTGGG TCAACTGGGC ATCACTAAGG TCTTCAGCAA TGGGGCTGAC 60  
 CTCTCCGGGG TCACAGAGGA GGCACCCCTG AAGCTCTCCA AGGCCGTGCA TAAGGCTGTG 120  
 CTGACCATCG ACGAGAAAGG GACTGAAGCT GCTGGGGCCA TGTTTTTAGA GGCCATACCC 180  
 ATGTCTATCC CCCCCGAGGT CAAGTTCAAC AAACCCTTTG TCTTCTTAAT GATTGNCCAN 240  
 AATACCAAGT CTNCCCTCTT CATGGGAAAA GTGGTGAATT CCACCNAAAA ATAAGTGNCT 300  
 GTNGGTNCTC AACCCCTTNC NNTTCATCCN TGGGCCCNTN GGCTTGGATN GANAATTAAA 360  
 AGAAGGGGTT GNGGCTNGGG NAAA 384

## (2) INFORMATION FOR SEQ ID NO: 100:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 374  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00113

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 100:

GATCTTTGAA ACCTTGGTCC CGTTAACTTA CTAGTCACAT TGACCAATGT TTTATAGAAA 60  
 TGCCTAGAAT TTTGAGACTA ATNGTAGTTA TCCATTAACA TTCCAAAAGT TTTGTNCTTT 120  
 TNAAAATTTG TNTTGGTAAT TATCACATTT NTNCCTCTTA CCTTCCTTTA AATGGCCACA 180  
 GTGTGTACTG CTGGANTGTN CCATCCAAAA GATGTAGCTT CAGANGCACA GTGATTGCCC 240  
 CAGGGTCCAT GAGATATTGT TTGTATTATG ANGTTGGAGT GCTGTCTACT GAAATTATAC 300  
 TCTTAAATAA NTATGTATGT NGTGTGTAAT ATTTCTAAT AAATNCTTTN GATAAACTAA 360  
 AAAACTNNG CTNN 374

## (2) INFORMATION FOR SEQ ID NO: 101:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 382  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00114

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 101:

GATCTGTGCA AGGTATTAAC GTGTCAGGGC TGAGTGTTCT GGGATTTCTC TAGAGGCTGG 60  
 CAAGAACCAG TTGTTTTGTC TTGCGGGTCT GTCAGGGTTG GAAAGTCCAA GCCGTAGACC 120  
 CAGTTTCCTT TCTTAGCTGA TGTCTTTGGC CAGAACACCG TGGGCTGTTA CTTGCTTTGA 180  
 GTTGGAAGCG GTTTGCATTT ACGGCTGTAA ATGTATTCAT TCTTAATTTA TGTAAGGTTT 240  
 TTTTTTGTAC GCAATTCCTG GATTCTTTTG AAGNAGATGA CAACAAATTT NGGTTTTCTA 300  
 CTTGTTATGT GAAGACCATT AAGGCCCAA GCAACAAGNC AATTNTGTAA GGGAAANTNA 360  
 AAGTTCCTTG CNGTAANCCA AA 382

## (2) INFORMATION FOR SEQ ID NO: 102:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 368

(B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00115  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 102:

```

GATCTGTCTC TGCTGTTTAA CTTTCATTGGA TTAATCAGCT GGTTTCAACT CTA CTGCGAA 60
ACAAAAATAG CTCCTTAAAA GTACTGTTCT CCTTCAGTGG CATGTAGTTA TCTAATCAAG 120
ACACCTCATT CAAACAAAAC CTGCCTTAGG AAAATTTAAT ATATTTNAAA TNATTTTAAA 180
AGAAATACAA CATCTTATTC TTTAGCTTTC TTAATCGGTG CTTTATGGAG GCCAGTGTAA 240
CGNTACATGA CTCGTTGAGA AAGTTGAGGA ATTTCTCTA CCACCTTTGT TGCTTGAAGA 300
AAAACATGTC TTTTCAAAT GAGAGGCTTT CATTGAAGAA AAGAAAAAAA CAACAGTTAA 360
AAGCTAAA 368

```

(2) INFORMATION FOR SEQ ID NO: 103:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 367  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00116  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 103:

```

GATCTCGGAT GACCAAACCA GCCTTCGGAG CGTTCTCTGT CCTACTTCTN ACTTTACTTG 60
TGGTGTGACC ATGTTTCATNA TAATCTCAAA GGAGAAAAAA AACCTTGTA AAAAAAGCAA 120
AATGACAACA GAAAANCAAT CTTATTCCGA GCATTCCAGT AACTTTTTTTG TGTATGTNCT 180
TAGCTGTACT ATAAGTAGTT GGTTTGATG AGATGGTTAA AAAGGCCAAA GATAAAAGGT 240
TTCTTTTTTT TCCCTTTTTT GTCTATGAAG TTGCTGTTTA TTTTTTTGGG CCTGTTTGAT 300
GTATGTGTGA AACANTTGTN GTCCAACATT AANCAGGANT TTTATTTTNC NGAGTNGTNC 360
TANCAA 367

```

(2) INFORMATION FOR SEQ ID NO: 104:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 366  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00117  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 104:

```

GATCTTAGTA ACTATGNATG AAGATGGTGC TTGGCCTGTN CTTCTTGATG AATTTGTTGA 60
GTGGCAAAAA GTCCGTCAGA CATCATAGCA AGAACTATGT GAAGAAAATG CAAACCTTTC 120
AATTTCCACG TGTATACAAG CTAATGTGAT GAGGGGGAAA AAAATCCAAC GGGTGCATTT 180
TCATTCATAT GAAAGACTTC TCATAGTACT TTTTTTTCCN TTTTTTAAAA GGAGGTTTTT 240
CTTGTTACAT GTGATGGGCA TTGAGCCACA CCNNTTCTTA GACTGAATAT NGAAGTTTTT 300
GTTTTGAGTT ATGTTTATAA CATTTATTTT AGAACANTAA TGATTCAGAT TTGTGACAAA 360
GGCAAA 366

```

## (2) INFORMATION FOR SEQ ID NO: 105:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 122
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00118

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 105:

GATCCCCGAA ATTGGTGGGC TTGACCTCTT GCCTCTTTC CACTTGCTGT 60  
 TCAGGACCAC TAAATGCTGA AATNTGGATG CATACCGAAA TAAAAGNAAT TCATTGTGTA 120  
 AA 122

## (2) INFORMATION FOR SEQ ID NO: 106:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 364
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00119

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 106:

GATCTTCAAT ATGAAGACAT GAGCTTTTCT CGCAGGAAAT TTTCTTTTTC ACAGAACTGG 60  
 TGTCAGGAAT CACTGAAGGG CTAACCGTGA TAGTCCTTGC AAGTAAGTCA AGGTTTTATC 120  
 CTGATTGGAA ATAGAAGACA TTCCGGTTG AGAGAACAGA TTCGTTGGAA GCTTAACTTT 180  
 TGTGTCCTCT TAACGCCACC AAATTTTAGG GTAATTTGAT TATGAAAGAG TGAATTTTTC 240  
 TGGACAGAAA AGGGAGAGCT ACCAAATTGT TTTTCTTTT TTAAGAGGAA GTTTAATGTC 300  
 CGTTGTATCA CAAATCAGTG TTAACACC AGAAGTTTTC CAAAATAAA TGTCTTACAT 360  
 TACN 364

## (2) INFORMATION FOR SEQ ID NO: 107:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 358
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00120

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 107:

GATCAGCAGG GAGTTTATTT GAGGACATCA GTCACCTTTG GGGTTGCCAT GTACAATNAG 60  
 ATTTATAATC ATNATACTCT TCGGTGGTAG TTTCAAAGA CACTACTAAT ACGCAGGAAG 120  
 CGTTCCAGCT ATTTAATGCT GGCACTACT GTTTAATGGT CAGTTAAATC TGTGATAATG 180  
 GTTGGAAGTG GGTGGGGTTA TGAAATTGTA GATGTTTTTA GAAAACTTG TGAATGAAAA 240  
 TGAATCCAAG TGTTTCATGT GAAGATGTTG AGCCATTGCT ATCATGCATT CCTGTCTCAT 300  
 GGCAGAAAAT TTTGAAGATT AAAAAATAAA ATAATCAAAA TGTTTCCTCT TTNCTAAA 358

## (2) INFORMATION FOR SEQ ID NO: 108:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 430  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00121  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 108:

```

GATCTGTCTC TGGGGTCCCN CATAAGAGA AATGCATCTT GCTGAACAAG TGACCAATAA 60
TCTTAAAGAA CTTGCACAGC AAGTAACTCC AGGTGATATC GTAAGCACGT ATGGAGTTCG 120
AAAAGCAATG GGGATTTCCA TTCCTTCCCC CGTCATGGAA AACAACTTTN TGGATTGAC 180
AGANGNNNCT GAAGAACCTA AAAAGACGGA TGTTGCTGAG TGTGGACCTG GTGGAAGTTG 240
AGGCTGCCTG GTATTTGATT ATATATTATG TACATACTTT TTCATTCTTA ACTTAGAAAT 300
GCTTTTCAGA AGATATTAAA TATTTGTAAA TTGTNTTTTT AATTAACTT TGGAACAGCG 360
AATTTGGNTG TTCCAGAGGT TGGGCCTTGT ATTAGGGAAA TAAAAGCTTG GACCTGGGGC 420
CTCGTGGAAG 430

```

(2) INFORMATION FOR SEQ ID NO: 109:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 357  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00122  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 109:

```

GATCACTNGA TATTTTAGTC ATTCTGCTTC TCATCTAAAT ATTTCCATAT NCTGTATTAG 60
GAGAAAATNA CCCTCCCAGC ACCAGCCCCC CTCTCAANCC CCCAACCCAA AACCAAGCAT 120
TTTGGAATGA GTCTCCTTTA GTTTCAGAGT GTGGATTGTA TAACCCATAT ACTCTTCGAT 180
GTACTTGTTC GGTTCGTAT TAATTNGACT GTGCATGNCA GCGGCAATCT TTTCTTTGGT 240
CAAAGTTTTC TGTTCATTTT GCTTGTGATA TTCGATGTAC TTTAAGGGTG TCTTTTATGA 300
AGGTTTGCTA TTCTTGCCAN TTAAGNTTTT TTAGGNCTTT TTAAANGNGN ANNNAAA 357

```

(2) INFORMATION FOR SEQ ID NO: 110:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 356  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00123  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 110:

```

GATCAAGGGA CGGCTGAACA GACTTCCCGC TGCTGGTGTG GGTGACATGG TGATGGCCAC 60
AGTCAAGAAA GGCAAACAG AGCTCAGAAA AAAGGTACAT CCAGCAGTGG TCATTGACA 120
ACGAAAGTCA TACCGTAGAA AAGATGGCGT GTTTCCTTTAT TTTGAAGATA ATGCAGGAGT 180
CATAGTGAAC AATAAAGGCG AGATGAAAGG TTCTGCCATT ACAGGNCCAG TAGCAAAGGA 240
GTGTGCAGAC TTGTGGCCCC GGATTGCATC CAATGCTGGC AGATTGCATG ATTCTCCAGT 300
ATATTTGTAA AAANTAAAAA AAAGCTAAAC CCATTAAAAA GTATTTGTTT TGCAAA 356

```



## (2) INFORMATION FOR SEQ ID NO: 111:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 375  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00124

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 111:

```
GATCCTACCT ATCAAGCACT AAAAAGTTGA ACCATTATAC TTTATATCTG TAATGATACT 60
GATTATGAAA TGTCCCCTCA AACTCATTGC AGCAGATAAC TTTTGTGAGT CATTGACTTC 120
ATTTTATATT TAAAAAATTA TGGAATATCA TCTGTCATTA TATTCTANTT AANGTTGTGC 180
ATAATGCTTT GGAANAATGG GTCTTTTATA GGAAAAAACC TGGGATAACT GATTTCTATG 240
GCTTTCAAAG CTNAAATATN TAATATACTA AACCANCTCT AATATTGCTT CTTGTGTTTT 300
ACTGTCAGNT TAANTTACAG CTTTATGGG TGGTTAACTT TTCGTNCATT TTCAAAAAAN 360
CCNGGGGNNN NNNNNN 375
```

## (2) INFORMATION FOR SEQ ID NO: 112:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 356  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00125

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 112:

```
GATCTCTGTT TTGTTGTTGA AAATTCATTT GTATACTTTT GTTTNNATCT AGGACTTCAT 60
GTTTTTTNAA AGCACTGGCA GCCAGGAACA AAAATCAGGA GTGTGGTAGT GGATTAGTGA 120
AAGTCTCCTC AGGAAATCTG AAGTCTGTAT ATTGATTGAN ACTATCTAAN CTCATACCTG 180
TATGANTTAA GCTGTAAGGC CTGTAGCTCT GGTGTGTATAC TTTTCCTTTT CAAATTATAG 240
TTTATCTNCT GTATAACTGA TTTATAAAGG TTTTGTGACA TTTNTNAATA CTCATTGTCA 300
ATTTGAGAAA AAGGACATAT GAGTTTTTNC ATTTATTAAT GNAACTNCCT TTGAAA 356
```

## (2) INFORMATION FOR SEQ ID NO: 113:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 351  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00127

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 113:

```
GATCACATTA TNATAAATAA ATGAAAAAAT GATTTAATCT GTAATAAACT GGTTTATTGT 60
GCAGTGACTG TAATATACTA GAGTTATAAT AAATTGTTTA CTCTGCCTCA CCAAACACAT 120
GCTAGGATAT AACCCCCAAA ATAAGTATTT AACTTTGCAT TAGGTATAAA GGAGACTGGG 180
TGCTATAATN AGATTATTTT GAGGCAGACA GAGAGCTGTT ATCCTAACTG ATTTAGTATG 240
TTCTGTAATT GAGAAAATGT TCACCAAATN ATACTTTTTA GTGATTTACA TGTACATTTT 300
ATAGGGGACA TGTCTGTGT ATAGCGAATA AATAACTTTT ATAGTATCAC N 351
```

## (2) INFORMATION FOR SEQ ID NO: 114:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 352
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00128

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 114:

```

GATCTTGAAC CTGGTGCTCC ATCCATGGNA GCNNAAAGCC TTTGCATCCC CTTCAAACCA 60
CTCTGTGAAC TGCAGCCTGG AGCCAAATNT GTCTGTGGCA AGAACCCTGC CAAGTACTAC 120
ACCTTATTTG GTCGCAGCTA CTGNGGGATG NACGAAAGCC CCCTCTTCAA CTCCTCTCAC 180
TTTTTAAAGC ATTGATATTA GTATCTTCTC AGATACAGAC CGTTTTATGA TTTTTTAAAA 240
AGTAAAGTT CTAAATGAA GTCACACAGG ACAATTATTC TTATGCCTAA GTTAACAGTG 300
GATAAAGAC TTTTCTGTAA ACAACTCCAG TAATAAATAT CATGNACTNA AA 352

```

## (2) INFORMATION FOR SEQ ID NO: 115:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 348
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00129

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 115:

```

GATCAAGTCG TGCTCCTGGC AGGCGCGCCC CTGGAGGATG AGGCCACTCT GGGCCAGTGC 60
GNGGTGGAGG CCCTGACTAC CCTGGAAGTA GCAGGCCGCA TGCTTGGAGG TAAAGTCCAT 120
GGTTCCCTGG CCCGTGCTGG AAAAGTGAGA GGTCAGNNTN NTNAGGTGGC CAAACAGGAG 180
AAGAAGAAGA AGAAGACAGG TCGGGCTAAG CGGCGGATGC AGTACAACCG GCGNTTTGTC 240
AACGTTGTGC CCACCTTTGG CAAGAAGAAG GGCCCCAATG CCAACTCTTA AGTCTTTTGT 300
AATTCTGGGC TTTCTTCTAA TAAAAAAGCC ACTTNAGTTC AAGTCAAA 348

```

## (2) INFORMATION FOR SEQ ID NO: 116:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 344
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00130

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 116:

```

GATCTCCAC AATTAATTTA TCTTTTGACA AAGGGGATAA AGAGTTTCAG TTTAGCTCCT 60
TTTGATTGTA TATNATTTTT TCCTTTTTNA TTGTGAAAAG AGGTAGGTTT TATTTGTGGA 120
GAGAGAGTTG AAGATTAGGG AACCAGTGAT TTTAATTATG CTACTTTTCC TTCTAAGAGA 180
TAAATTGATA TATCATTCAG TGTCATGAAA AACATGAATG TNGTACAATT TTCTNCCTCA 240
AAAAACTTTT TAAATGTAAG TATCCTTATT TNNTTTTTAA AAGAGCACAA TGTAGGTGTA 300
TTTGGGTATT TCCAAGAAAA GANTAAANCC ATTAATGCAG TAAA 344

```

## (2) INFORMATION FOR SEQ ID NO: 117:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 351  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00131

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 117:

```
GATCTGGGCT CCAAGCCAGG AAAGGTGAAC AGAAACCACA AGTNTCCAGC CCTCGGTGCT 60
GGAGTGGACG TTAATTGTNA GCCACCAGAC TGTCCCGGCA CCTACAGAGA ATGTTTCACA 120
GTTCTGGCAT TTAAATCCTT TGATAGTGGA TTGTGCTGCT GTTAGCCTTA GTTTCAGTGC 180
TTTACAAGTC TCGCTTATNA TCTCATTGGT ATTTAGGTAT ACAAACAGT TGATTATTCA 240
CCACGCCAAT ATCTGGGTCT CTGTATCTCA TGTAGAACAT AAGAAAATGG GAACTAATAG 300
GGAAATTTAT TTATAGCATG AAAATAAACC TGGTGGCTGG AGTCTGCTAA A 351
```

## (2) INFORMATION FOR SEQ ID NO: 118:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 343  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00132

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 118:

```
GATCCTAAGG CAATAAAAGA ATAAGGAGAT TTGGAAAACC ATTGTCTGTA ATCTCTGAAG 60
AAAAGTGGAC ATTAGGGGAG TCAGTTGAAA AGCAAAGCTA TCACCATTTT CTAAAGAGGA 120
AAAAGGTGAA CCTCACAAAC TATAGACCAA AAAAATAGGA CATCGAGAGA AAGAATATGA 180
AGCTAGCATA GGTTCACAAA GAATGAGTCA AATCAAACAA CATGCATTTT TTATTTATAA 240
AGCATGACTT GTTCATTGTC AATTCATGTT AGCTTAATCA TTAGGCATTA ATGCCATCAC 300
TGCAATGCAT ATGTCAGCAA TAAATAATCA AGGCCCGGCT TCN 343
```

## (2) INFORMATION FOR SEQ ID NO: 119:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 345  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00133

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 119:

```
GATCTTCCCA CAACACCACA GGACTGCAGG GTGCACAACCT CCCCTGCCAA GGAAAACCAT 60
GCAGTCCTCC CCTCCCTGGT CTCCTGCTTC AGCTCTGTAC AACGAGGGCA AAGATGCTAA 120
ATCTTGCTTT GCATTAGTA AAGTGTCAAG TGATTAAGTG TGTATTTGTA CCCTAGATGA 180
TATGAACCAG CAGTCTTGTT TTGGCATCAT CCTCATCATG TTGTATTCCA GCTTCTTAAG 240
TGGAAGGAAA AGAGTGCTGA GAAATGGCTC TGTATAATCT ATGGCTATCC GAATTCTCTG 300
AAAAANTANT AAAAGTCCCC TCTNTTATAT GAGCCTGTAC AGAAA 345
```

## (2) INFORMATION FOR SEQ ID NO: 120:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 358
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00134

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 120:

```
GATCCCCCCT CTCGAGGGCG ATGAGGATGC GTCTCGCATG GAAGAAGTCG ATTAGGTTAG 60
GAGTTCATAG TTGGAAGAACT TGTGCCCTTG TATAGTGTCC CCATGGGCTC CCACTGCAGC 120
CTCGAGTGCC CCTGTCCCAC CTGGCTCCCC CTGCTGGTGT CTAGTGT TTTT TNCCCTCTC 180
CTGTCCTTGT GTTGAAGGCA GTAAACTAAG GGTGTCAAGC CCCATTCCCT CTCTACTCTT 240
GACAGCAGGA TTGGNTGTTG TGTATTGTGG TTTATTTGAA TTNCCTTCAT TTTGTTCTGA 300
AATTAAAAGT ATGCAANAAT AAAAGAATTA TGCCNTTTT TNATACAANA NNAANAAA 358
```

## (2) INFORMATION FOR SEQ ID NO: 121:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 350
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00135

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 121:

```
GATCTTCATG CCCTGGGTTT TGCCCGNACG GACCCNCATC TCTGTGACTT CCTGGAGACT 60
CACTTCCTAG ATGAGGAAGT GAAGCTTNTC AAGAAGATGG GTGACCACCT GACCAACCTC 120
CACAGGCTGG GTGGCCCGGA GCTGGGCTGG GCGAGTATCT CTTCGAAAGG CTCACTCTCA 180
AGCACGACTA AGAGCCTTCT GAGCCCANCG ACTTCTGAAG GGCCCNTTGC AAAGTAATAG 240
GGCTTCTGNC TAAGGCTCTG CCTNCAGNCA ATAGGNANGC TTTT TTAACN ATCCTAACAN 300
GGNTTGGGAC CAAATGGNAA TAAAGNTTTG TNGATGCAGG AGATATGAAA 350
```

## (2) INFORMATION FOR SEQ ID NO: 122:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 338
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00136

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 122:

```
GATCTGAGCT GAATTTGAAG ACTATTAATA AGTTATGTTT GGAAGTTTTA ACTTCAATGA 60
AGTAATTATT TGCTGTGAAA GAAACAAACA TTGAATTACT AAACAAAGAT GGTGCAATAT 120
CTTTGTTTTT TTTTATGAG GCTCCTGAGA ATCAACCCAA CTGAAGCATT TCAATTCACT 180
TGAATGAGAA ACGTGTTTAG TATCAAAAAGA GCCCAAGAAG ACACTGGTGT GAAAGGTACA 240
NTCTCAGAGG TTGGTCAATT ACCGTGGCAC ANTTTCTGGT CACTTTGTAC AATGTAGATT 300
TGAAGTACAG TGGTGAAAAC ATTAAATGTG ACATTGTN 338
```

## (2) INFORMATION FOR SEQ ID NO: 123:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 337
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00137

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 123:

```

GATCAAAAAA CATGAGGNAG AAGAAGCCAA AGCTGAGCGT GAGAAGAAGA NAAAAAGAAC 60
AGAAAGAAAA GGATAAATAG AATCAGAGAT TTTATTACTC ATTTGGGGCA CCATTTTCAGT 120
GTAAAAGCAG TCCTACTCTT CCACACTAGG AAGGCTTTAC TTTTTTNAAC TGGTGCAGTG 180
GGAAAATAGG ACATTACATA CTGAATTGGG TCCTTGTCAT TTCTGTCCAA TTGAATACTT 240
TATTGTAAAG ATGATGGTTA CCCTTCATGG ACGTCTTAAT CTTCCACACA CATCCCCTTT 300
TTTTGGAATA AAATTTGGAA AATGGAAATN AAGGAAA 337

```

## (2) INFORMATION FOR SEQ ID NO: 124:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 336
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00138

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 124:

```

GATCACCATT TGAGATACGC GGCTTAACGC ACATGTGAGT GTAGCTTGCT ACATGAAAAT 60
GCTAGGCTCT AGGGCATGTA AAACATGAAT ACAGAATACT AGATTGTTCT AAGTAATGTC 120
ATTTTCGGTTT GTGANTTTGA TTTTCCCTT CATTTTCATGT CATATTGNAA ATGCAAACAA 180
ACTGCTCTCA AGAACACCCA GAAGCTATCT GTGTTACCAG ATGTGTTGTG NACACTCTAC 240
TNTTTTTCAT AGGTGCTACC TGGNAATATA TGTCCATTGT AGTGGTGGNG NGGGNCTNGA 300
CTCTNTCAGG CTCTTNTCTN GCCAGNTGNC TNCNGN 336

```

## (2) INFORMATION FOR SEQ ID NO: 125:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 338
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00139

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 125:

```

GATCTGGGCT GCAGGAGCTG GGGCCACCCA CAGCCCCCCT ACCGACCTGG TGTGGAAGGC 60
ACAGAACACC TGGGGCTGCG GGAACAGCCT GCGTACGGCT CTCATCAACT CCACTGGGGA 120
AGAAGTGGCC ATGCGCAAGT TGGTGCCTC AGTGAAGTG GTTGAGGACG ACGAGGATGA 180
GGATGGAGAT GACCTGCTCC ATCACCACCA CGTGAGTGTA AGCCGCCGTT GAGGCCGAGC 240
CTGCACTGGG GCCACCNAGC CAGGCCTGGG GGNAGCNTTT CCCNAGNNTN CNNGTGCCAA 300
AANTTTTTTN ATTAAAAGAT TGTTTTGGGA ACTTTAAA 338

```

## (2) INFORMATION FOR SEQ ID NO: 126:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 347
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00140

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 126:

```
GATCAAGCAG ATTCCACGAA TCCTNCGGAC CAGGTTTAAA TANGGCAGGA AAGTTCCTT 60
CCCTGCTCAC ACACAACGAA AACATGGTGG CCAAAGTGGA TGAGGTGAAG TCCACAATCA 120
AGTTCCAAAT NAAGAAGGTG TTATGTCTGG CTGTAGCTGT TGGTCACGTG AAGATGNCAG 180
ACGATGAGCT TGTGTATAAC ATTCACCTGG CTGTCAACTT CTTGGTGTCA TTGCTCAAGG 240
AAANCTGGCA GANTGTCCGG GCCTTATATA TCANNGNGCA CCATGGGCAA NGCCCCAGCG 300
GCTTATATTT AAGGCACATT TTNNATAAAT TCTATTNACC CGGTAAA 347
```

## (2) INFORMATION FOR SEQ ID NO: 127:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 335
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00141

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 127:

```
GATCAGTTGT AATCAGAATA CAACTGNGTC TTGTAGTTGT AATATGTTCT ATCTTAACCA 60
CCACTTTCGT ACCAGGAACC TGCTCAGGTT TGTTCTCTAG AAGCTCCCAA CATAGATAGT 120
CTACATTTCA GACTACTAAG TTATTAACAA ACCCTTTGGG CCCATGTTCA CTTTAGGGTT 180
GAGCATAGTG TGAGGAGATG TAAATTAAAT TATAATCCTA TATGTGTGTG TAATAAATAT 240
TAAAGTGTAT AAATTAAACA GCAGATTCTA AGTATCCAAC AAGAGTCAAA TAAATGATAC 300
AAAGTCACCA AATAAATAAT ATTTAATCTC ATCTN 335
```

## (2) INFORMATION FOR SEQ ID NO: 128:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 356
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00142

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 128:

```
GATCTAGTTA AAGTTATTCA ACAGGAGTCT TACACATATA AAGACCCAAT TACAGAATTT 60
GTTGAATGTT TATATGTTAA CTTTGACTTT GATGGGGCTC AGAAAAAGCT GAGGGAATGT 120
GAATCAGTGC TTGTGAATGA CTTCTTCTTG GTGGCTTGTC TTGAGGNMNN CATTGAAAAT 180
GCCCCGTCTC TCATATTTGA GACTTTCTGT CGCATCCACC AGTGTATCAG CATTAAACATG 240
TTGGCAGATA AATTGAACAT GACTCCAGAA GAAGCTGAAA GGTGGATTGT AAATTTGATT 300
AGAAATGCAA GACTGGATGC CAAGATTGAT TCTAAATTNA GGTCATGTGG TTATGN 356
```

## (2) INFORMATION FOR SEQ ID NO: 129:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 333
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00143

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 129:

```
GATCAAAGNA CTCTGACTGC AGAAGTCCCG CTCTCAGTGG ACAGGGCATC TNTNACCCTG 60
AGACCTGTGG CAGACACGTC TTGTTTTTCAT TTNATTTTTTG TTAAGAGTGC AGTATTGCAG 120
AGTCTAGAGG AATTTTNNNT TCCTTGATTA ACATGCTTTT CCTGGTTGTN ACATCCAGGG 180
CATGGCAGTG GCCTCAGCCT TAACTTTTG TNCCTACTCC CACCCTCAGC GAACTGGGCA 240
GCACGGGGAG GGTTCGGCTA CCCNTGCCCA TCCNTGAGCC AGGTACCACC ATTGTAAGGA 300
AACACTTNCA GAANTTCAGC TGGTTCCTCC AAA 333
```

## (2) INFORMATION FOR SEQ ID NO: 130:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 332
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00144

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 130:

```
GATCTCTGTA GATATTCTGT TTTATTTTGG TCATCTTTAG AAGTTATCAG GAATGTGTTT 60
AAAAACAAGAA GAGAACTTTT CTAAGGAATG ATACATAGAA AAGATTTTAT TTTAAAATGA 120
GTTGTAAAGC TTGTTTTTCT TTGTTGCTGC AANTATCTGC CCAAGTTAAT GCAAATGGAC 180
ACATTTTTTA TGTCAGAAAA ACACACACAC ACACACACAC ACACACACAC ACACACNCGC 240
GNACACACAGN GANAAAAGTG CTTGNGCTTN NNCTCNCTNC CCCTTGCNGT CTGTTGTGTG 300
CGCAGCCTGT TTATNTCTCT NNTATTGTGT CN 332
```

## (2) INFORMATION FOR SEQ ID NO: 131:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 332
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00145

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 131:

```
GATCTGTGAC CTTACCCCCA AACCTGTNCT CTCTGAAACA TGTGCTGTGT CCACTCAGGG 60
TTAAATGGAT TAAGGGCGGT GCAAGATGTG CTTTGTTAAA CAGATGCTTG AAGGCAGCAT 120
GCTCCTTAAG AGTCATCACC ACTCCCTAAT CTCAAGTATC CAGGGAGACA AACACTGCGG 180
AAGGCCGAG GGTCTCTGTC CTAGGAAAAC CAGAGACCTT TGTTCACTTG TTTCTTTGTT 240
CACTTGTTTA TCTGCTGACC TTCCCTCCAC TATTGTCCTA TGACCCTGCC AAATCCCCNT 300
NTGATGAAAA ACACCCAAGN ATANTCANTA AA 332
```

## (2) INFORMATION FOR SEQ ID NO: 132:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 333
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00146

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 132:

```

GATCGAGGTT GTTTGCAACG ACCGTCTGGG GAAGAAGGTC CGCNTTAAAT GCAACACGGA 60
TGATACCATC GGGGACCTTA AGAAGCTGAT TGCAGCCCAA ACTGGTACCC GTTGGAACAA 120
GATTGTCCTG AAGAAGTGGT ACACGATTTT NAAGGACCAC GTGTCTCTGG GGGACTATGA 180
AATCCACGAT GGGATGAACC TGGAGCTTTA TTATCAATAG ATGAGAATCC TCATCTTNCT 240
GCCCCGCTNT CCNNCTNCCA TCCTCATCCC CCACANTNGG GATAGATGCT TNGTTTGTAA 300
AAACTCANCN NAATAAAGAC TTAGATGTTG AAA 333

```

## (2) INFORMATION FOR SEQ ID NO: 133:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 330
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00147

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 133:

```

GATCAGGTCT GTAAATGTGT ACTAAAAAAA TNAGAGTTTA TTTATAAACA AAATAGTTTA 60
TTTAAAGAGA AGGTCTCTTC CTTATTGATA TCATGGTATG CATTAAATCC ATTTGTTACT 120
ATTGTGCACA AAAGCCCTGT TCACAGGGGA ATGGTGTAAT CATTATATACT GTTTTGTTC 180
CTGTATTTAG TAGACATAAC TGTTGAATAG TTAGTGAATC ATGATGTAAA GAATATGTGA 240
CCATCTTCAG GTATGGGATT TCTGAACGTT TCAAATTTCA ATCAATGAGC ACTGTCAACA 300
CCCACAGNGG AGAATAAAAT TACCTGTGCN 330

```

## (2) INFORMATION FOR SEQ ID NO: 134:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 326
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00148

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 134:

```

GATCGAACCA CTGCACTCCA GCCTNGGTGA CAGAGAGAGA CACTGCCTTN GAAAAAAAAA 60
GAATCTCACT CACTATCTAG AGAGGATTGT CAGANTATTC ACGATTCAGN TCTTGAAACT 120
TTGATTATGC AAAAGAGGTA TATATAAATA TTTCATTATG ATTCAGGTTT TAGGCTTTGC 180
AGCTTCTATA AGGTGTTCTC AGGTGGCCCT TGTACNNCTN AAAGCATCCT TTAGGAAATN 240
CTTTAAGGGN GGCTTTNTAT AAGGAATAGG NGGNTGTTGA ATTTTACAG GGGGGTTTGG 300
GTCATTNAGN CCCCATTNT GTANGN 326

```



## (2) INFORMATION FOR SEQ ID NO: 135:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 325  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00149

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 135:

```
GATCATGANC TCTGAAAAA AGAGAAACCT TATCTTTNCT TTGTGGTTCC TTAAACACA 60
CTCACACACA CTTGGTCAGA GATGCTGTGC TTCTTGAAG CAAGGNCTCA AAGGCAAGGT 120
GCACGCAGAG GGACGTTTGA GTCTGGGATG AAGCATGTNC GTATTATTTA TATGATGGAA 180
TTTCACGTTT TTATGTNAAG CNTGACAACA CCAGGCAGGT ATGAGAGGAA AGCAAGGCCC 240
GTCCATNGCT GTCCGTACNC TTACGNTTG CTTGTNGGAG NCATTTNGGT ATTGTTTGTT 300
GTAANANCCA AAANGGGCTT TGGNN 325
```

## (2) INFORMATION FOR SEQ ID NO: 136:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 326  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00150

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 136:

```
GATCNACGCT GTGCCTTGGC AGGGCACAAT GACCTTGTCG AAATCCACCT GTCAGGACGC 60
CTAGGGGTCT GTACCGGGCT GGCCTGTGCC TATNACCTCT NATGCACACC TCCCACCCCC 120
TGTATTCCCA CCCCTGGACT GGTGGCCCTT GCCTTGGGGA AGGTCTCCCC ATGTGCCTGC 180
ACCAGGAGAC AGACAGAGAA GGCAGCAGGC GGCCTTTGTT GCTCAGCAAG GGGCTCTGCC 240
CTCCCTCCTT CTTCTTGCT TCTNATAGCC CCGGTGTGCG GTGCATACAC CCNACCTCC 300
TGCAATAAAA TAGTAGCATC GGCAA 326
```

## (2) INFORMATION FOR SEQ ID NO: 137:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 324  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00151

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 137:

```
GATCAAGNNG CCCTGGAGGC GGTGGGCGGC ACCGTGGTTC TGGAGTAGCC TCCAGCTCGG 60
AGGACTTGTT TNCAGGGGTC CTGGGCCCCG GNCAAGGTCC CGCCCTCCCG TGGTCACTGG 120
CTCCGCCCCA GCACCAGGCG CCCAGTGGAG CCGTTTGGAA GAATTGCCTG CNGCAGGAGC 180
GGGGCCGGAC AGGCGCACAG ACCTACTGTN GCGGGAGGAA GGGGCGGCTG CTGCCTGGTG 240
ACGGCACCCG GANGCCACC AGGACGCGCC ACCGGTNAAT GTNNCTCTNG TGGCTGCTGA 300
GAAAAATACA CTGTGCAAGT CAAA 324
```

## (2) INFORMATION FOR SEQ ID NO: 138:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 323
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00152

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 138:

```
GATCTCAGCT TTTGTTTCC CATGATACCA TCTCTAGGGG TAGCAGCTGG CTATAATAAC 60
TAATGTCTGG ATTATCCTAA CTCTTCTGTT TGTNCTTTCA GGTATTTAAC AATGTTGTGA 120
CTAATTGGCT TCCATTATTT CCCTAGAGTA GGTTCTGTTA TNACCCTGGA ATATGTTTGT 180
AATAGAGTGG GCTATTACAA TCATCTAGGA TAAAGATAAT CGTGGCTTGG AATAAGGGTG 240
GTAGCAATGG AAGTGATGAG AAGTCATTAG ATGCAGAATA TATTTTATAG ATGGANTGTG 300
ATAAANTAAA AAATAAACTG GGN 323
```

## (2) INFORMATION FOR SEQ ID NO: 139:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 322
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00153

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 139:

```
GATCCATTCT CGGAATTCAC AGAATTTTNA TAACATCTNA CTCTCAGGGG GCATGAAGTG 60
CATAATCTTC CCTAGATTAC AAAAAACATA TAGATGACGG GTTTGCCTAT NAAACTTCAG 120
TACTACAAGA AACATAAAAT ATTTAAATAT ATGANATTTA AATATATTTA AAATTATTAA 180
AGTAATATAA ACATTTTNA GTGACTGTGT TATGTTTTTC TGGTTATTTT GTTTTCTACT 240
AGTATATTTT TCTGTAAAAA TTGTAAACT ATATCAGCAA TTTCTAATGC CAANAANGTA 300
AAACCTNGTG TGTATAAATG CN 322
```

## (2) INFORMATION FOR SEQ ID NO: 140:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 323
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00154

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 140:

```
GATCAGAGGC ACAAGTNCAG AGGCTGTGGT CATGCGGAAC ACTCTGTTAT TTAAGATGGC 60
TATCCAGATA ATCCTGAACA CTGTGTATTT ATTTAATTTA GACTACCAGC AAAGATTAAA 120
GCATGAAATG TAAACATCT GATAAACTT ACAGCCCCCT ACACCAAGAG TGTATCTGTG 180
AAAGAGCTCC TACACTTTGA AAACCTAAGA NTCCCTTNTC ATGAAGTTTG CCTGTNCTAG 240
AATTGTAAGA TTGTTAATTT CCNTCAATCT CTAGTGACAA CACTTAATTT CTTTNCTAAT 300
ANAAAAAGCC TNGTNGGTGN AAA 323
```

## (2) INFORMATION FOR SEQ ID NO: 141:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 328
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00155

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 141:

```

GATCAAGTTT AAATGACTGT GCTGCCCCTT TCACATCAAA GAACTACTGA CAACGAAGGC 60
CGCGCCTGCC TTTCCCCTCT GTCTATCTAT CTGGCTGGCA GGGAAGGAAA GAACTTGCAT 120
GTTGGTGAAG GAAGAAGTGG GGTGGAAGAA GTGGNGTGGG ACGACAGTGA AATCTAGAGT 180
AAANCCAAGC TGGCCCAAGG TGTCCTGCAG GCTGTAATGC AGNTTAATCA GAGTGCCATT 240
TTTTTTTTTG GGTTCAAANG NTTTTTAATT TTTTNGGAAT NGNNCCANTT TTTTNAATTT 300
NGCAANTAAA AANGTTTAAA ANCTTAAA 328

```

## (2) INFORMATION FOR SEQ ID NO: 142:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 369
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00156

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 142:

```

GATCTCTGGC AGTGGAGGAA GTCTCTTTAA GAAAATAGTT TAAACAATTT GTTAAAAAAT 60
TTNCCGTCTT ATTTCAATTC TGTAACAGTT GATATCTGGC TGTCCTTTTT ATAATGCAGA 120
GTGAGAACTT TCCCTACCGT GTTTGATAAA TGTNGTCCAG GTTCTATTGC CAAGAATGTG 180
TTGTCCAAAA TGCCTGTTTA GTTTTTAAAG ATGGAACTCC ACCCTTTGCT TGGTTTTAAG 240
TATGTATGGA ATGTTATGAT AGGACATAGT AGTAGCGGTG GTCAGACATG GAAATGGTGG 300
GGAGACAAAA TTATACATGT GAAATAAACC TCAGTATNTT AATAAAGTAG CACGGNTTCT 360
ATTTGNAAA 369

```

## (2) INFORMATION FOR SEQ ID NO: 143:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 324
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00157

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 143:

```

GATCATGAAG GAACACATAG CACCAAGAGA GGCCATGCTA AATCTCGCCC TGTCAGANNN 60
NTCCACACTT CTCCTTTGGG GAAGNCTTCC CTGTCCCCCT AGACTAAGTT AAATATTTCT 120
GCACAGTGTT CCCATGGCCC CTTGCATTTT CTTCTTAACT CTCTGTTACA CGTCATTGAA 180
ACTACACTTT TTTGGTCTGT TTTTGTGCTA GACTGTAAGT TCCTTGGGGA CAGGGCCTTT 240
GTCTGTCTCA TCTCTGTATT CCCAAATGNC TAACAGTACA GAGCCATGAC TCAATAAATA 300

```

CATGTTAAAA TGGGATGAAT GAAA

324

## (2) INFORMATION FOR SEQ ID NO: 144:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 316
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00158

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 144:

```
GATCATTGAA CGAGACAGAA AGCGACCATC CTGGTTCACC CAGAATTGAC ACCAAAGATG 60
TAAAAAGGAT AACTTCACAG TAAATCATTT CTCCTGAAAT AGAGGAAGAT TCTTTACGTT 120
GTTGTNCTTG TTTTAAATC ATCAGTATAG TTTAACACAT TCTTTCTAAG CAGTTTTGTG 180
TGGGATAATT TGAAGAATAT ATTATGAGTA ANCTCCGAAA ATTTTGTTTA TCCAAAGGCT 240
CANTGGATTA TGTTTCTATT ATNTACAAGG TTTTAAGTAA ACATANNNTT TCCNGNNCNG 300
AGNTTANAGN NATTTN 316
```

## (2) INFORMATION FOR SEQ ID NO: 145:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 323
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00159

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 145:

```
GATCTTCATT TTATTGCATT AGTTCATGTA GATGGGCATC TCTATGAATT AGATGGGCGG 60
AAGCATTTCC AATNAACCAT GGTGAAACTA GTGATGAAAC TTTATNAGAG GATGCCATAG 120
AAGTTTGCAA GAAGTTTATG GAGCGCGACC CTGATGAACT AAGATTTAAT GCGATTGCTC 180
TTTCTGCAGC ATAGCTTGTC AATAATGGAA ACACCAAAAA CTGTATTATT TGCAACTAAA 240
TTTTCTCTGC CATACTACTA CTCAAAAATT TTGATATTTT CATTAAGTTG ATGATTAAAC 300
TTTATGTGAG TTAANCTTTG AAA 323
```

## (2) INFORMATION FOR SEQ ID NO: 146:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 319
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00160

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 146:

```
GATCTTACTG CTTGTNACTT GAATCCCGTG ATTGTNATAC ATCTCTGGTA TAAGCAACAT 60
TTGATTTTTG AAGTGTGTAG ACCATCTCTT CATATTTTCA AGATGTAATT TTACATTNCT 120
GCATTTTTAA AACAGTTTGG CCATAATCCT AGATGCACGC TTCTAATTCA TGTACCTGCA 180
CATGTGACCT TTGTGAACAG NAATTTGCAT GNATAATTNG TGTTTACTTG TAACTNTCTG 240
GTTATATACT GCTTATATCT GTGGATTCAA GTTACTGAAG TGGANTNCCA ATAGAAAGNA 300
```

ANCCCTAGGC CATGTTAAA

319

## (2) INFORMATION FOR SEQ ID NO: 147:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 316
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00161

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 147:

```

GATCTCTGAT TACCAGCCTG ACATCAACAA ATCCCCTCAG TTACAACGTA TAGGTAAAC 60
AAAGCTTTTA AAAGCTCATG TGGTATGACC TCAAGGTTGC TAACCTGGTC ACTCATGGTA 120
ATNAGAAACT CTGATTGGCA GCTTTGTATT TCTTGACTAA AAACCTAAAT AACTGATTA 180
GGTTTTAGGC GTTCTTTCAA AGAGGTTCTT GAGAAGATTG AGAACTATCC TATTGGTGC 240
TTAGTGAAAA GATTTTGAAT TACTGTACGT ACCAGTTGTT GCCATTTCTT TATTAAATC 300
AGAAGTTTTT TTGCCN 316

```

## (2) INFORMATION FOR SEQ ID NO: 148:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 319
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00162

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 148:

```

GATCTTGGAC AGCNTGGGTA TCGAGGCGGA CGACGACCGG CTCAACAAGG TTATCAGTGA 60
GCTGAATGGA AAAAACATTG AAGACGTCAT TGCCCAGGGT ATTGGCAAGC TTGCCAGTGT 120
ACCTGCTGGT GGGGCTGTAG CCGTCTCTNC TGCCCCAGGC TCTGCAGCCC CTGCTGCTGG 180
TTCTGCCCCCT GCTGCAGCAG AGGAGAAGAA AGATGAGAAG AAGTAGGAGT CTNAAGAGTC 240
AGNTGNTGNC ATGGGATTTG GCCTTTTTTTG GTTAAATTCC TGNTNCNCTG CAAATAAAGG 300
CTTTTTTTTAC AGANGTAAA 319

```

## (2) INFORMATION FOR SEQ ID NO: 149:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 313
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00163

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 149:

```

GATCAATGCC CTCATTAAAG CAGCCGGTGT AAATATTGAG CCTTTTTGGC CTGGCTTGTT 60
TGCANAGGCC CTGGNCAACG TCAACATTGG GAGCCTCATC TGCAATGTAG GGGCCGGTGG 120
ACCTGCTCCA GCAGCTGGTG CTGCACCAGC AGGAGGTCCT GCCCCCTCCA CTGCTGCTGC 180
TCCAGCTGAG GAGAAGAAAG TGGAAGCAAA GAAAGAAGAA TCCGAGGAGT CTGATGATGA 240
CATGGGCTTT GGNCTGTTTG ACTAAAACCT CTTTTATAAC ATNGTNCANT AAAAAGGCTG 300

```

GAGCTTTAAT AAA

313

## (2) INFORMATION FOR SEQ ID NO: 150:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 313
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00164

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 150:

```

GATCCAGAAT CCACGGGGTC TGGAGCATAA GGTTTATCTC AAGTNTCAAT TGANCTGCCT 60
CCTTTGTNA GGCAGGGACA ACTGGGAGGA TGAGCCCCAA GAGCCTCAAG AACCCAACAA 120
GGTGCCCTA GAAGACACAG AGACAGATGA NCTTTGGGCA TCCTTGGAGG CAGCTGCCAA 180
GCGGANAGCT CTCGGGTTTG GAGCAGCCCC AAGGAGCTCT CCAAACGAGA CGGAGAAAGA 240
AGAAAGCGCC TGGGTCCACC AGCCCCTGAC GCCCCTGTNN CCACTTTGTA AATAAACTTG 300
CTGAACACCC AAA
313

```

## (2) INFORMATION FOR SEQ ID NO: 151:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 313
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00165

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 151:

```

GATCATCAAC AAAGAAAGTC TGAGAAATTG TCCCAGGAATA AAGGGGCCTA AGGAGACATA 60
ACATCTAAAT GTAATGTAGT ATCCTGGATG GACTCCTGCA ACAGAAAAAG AACTTTAAGT 120
AAAAATTAAG GGAATATTAA TAAAGTATGC ATTTTGGTTA ATAATGTATC AATATTGGTT 180
TATTAGTTGT GACAAATGTA CCAGAGGAAT GTAAATATGTC AACAATAAAG GAATTGGATG 240
TGGGGTCCAT GAGATGCTGT ACTATTTTGT CACTTTTCTT AAATCTAAAC TCTTATAAAT 300
TTAANCATAA AGN
313

```

## (2) INFORMATION FOR SEQ ID NO: 152:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 317
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00166

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 152:

```

GATCTGGCCA TCTACGAGCC AAAGACTTTN AAATCTTTGG CTGCCTTGGC CAGTAGGAGG 60
CGACACGAAG GATTNCTGC TGCCTTGGGG GATGGGAAGN AACCTGAAGG CATTTTTNCC 120
AGAGTGGTGC AGTACCACTN AGGACTGTTG CTGTATTGAT TAGGAAAAGA GACAGAGTAA 180
TTTNCAGTTT GTTTGATTTA TACTTTTGT TATCTACAAC CCAATAACAG ACATGAGGGA 240
TGGCCCTGTC TCTCTGGGAC AGAGCCTCAA AGATGATGTC CATGTTTTGT GTGAATGAAA 300

```

CTCAAACACT CTTCAAA

317

## (2) INFORMATION FOR SEQ ID NO: 153:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 310
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00167

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 153:

```
GATCCCCTGC CCCCTGTCCC CTGCCCTCTT TCCCAATTCC CTCCTTATG CTGGACTTTT 60
AAAGCTTAAA AAAAATCCGA TTGAATATAA ATGCCTAATT TCATTCTTTG TGAAATGGTT 120
GCTTCCTCCT GATTCCCTAA TTGTGCTGTG TTCGTGTCTT GCACTGGAAT TCAACATTCC 180
CTTCTCCTTT TGTACTGTGT TGTGCTTGCT GTCTCTCCCG GACANCCTTA AAGACTGTCT 240
TTTTAGCAAA AAATTTCAAGT AAAGTGTTTT CTGTAATCTT TTTTAAAAG GTGAGAACTA 300
ATTATTGTCN 310
```

## (2) INFORMATION FOR SEQ ID NO: 154:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 309
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00168

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 154:

```
GATCACCACG GTTTTAGCC ATGCTCAGAC AGTGGTTCTT TGTGTAGGTT GTTCAACAGT 60
GTTGTGCCAG CCTACAGGAG GAAAGGCCAG ACTCACAGAA GGGTGTTCAT TTAGAAGAAA 120
GCAACACTAA TGATTCAAAC AGCTTCCTGA ATTTTAATTT TGTGTTGTCT CACAGAAAGC 180
CTTATCATAA ATTCCATAAT TCTAATTAAT TTACCAAGAT AATGTAATTA CATTGTTT 240
TGTAAGGTAT ACAGCAGTAA TCTCCTATTT TGGTGTGAGT TTTTCAATAA AGTTTGTATT 300
ATGGGCAAA 309
```

## (2) INFORMATION FOR SEQ ID NO: 155:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 307
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00169

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 155:

```
GATCACATAC AGGGGAAAAG CCCTATGNAA TGTAACACAT GCAGGAAAAC CTTCTCTCAA 60
AAGTCAAATC TCATTGTACA TCAGAGAACA CACATAGGAG AAAANCCTTA TGANTGATTT 120
GGATATTAGA AATTNCCAGC CACAAGTCAG CCTCCATAAT GCNTCAGAGT CTTCACTG 180
TGGAGANGGG CCTGTTGACA TCCTGATTGT TCANTAATA TCCACAACCT CGCCTTATGT 240
TACTCCANNG TAACAGTAGG GGTAAANCC ATAGNCTACA ACACCTNTNG GNTGGCTTTT 300
```

NTTAGGN

307

## (2) INFORMATION FOR SEQ ID NO: 156:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 307
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00170

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 156:

```
GATCCACCAA CTTTGGCCTC CCAAAGTGTT CAGATTACAG GTGTGAGCTG CTACCATGCC 60
TAGCCCCAGC TTCTACTGCT TGANGGCTCT CTTTGGCATC TCCACACATC ATCCTTAGCA 120
GCCCAGACTG CATTCTGTGA GCAGCCTCTT CCCTGGTCTC TTCTTTCAGT CTCTCTGCCT 180
CTAATCCAGT GGCTTTAAGA ATTTTTTGGC TGTGACTTCC AGTAAGAAAT ACAATTTACA 240
TTGTGACCTA GTAAATATGT GTGTAAGATT TATTAAGTGA AATAAAAATG TTATGATTGA 300
ATTTTTN
```

307

## (2) INFORMATION FOR SEQ ID NO: 157:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 306
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00171

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 157:

```
GATCTGTCCC TGTGGTGGTG TCTAAGAATC GGACACCTTG GTTTTTGTGT TAGATTGAGC 60
TGGGCAGCTG CAATCAGCTA CTTAATATGC AAATTAGGCA CGTCCCATCT GTGGGTCCCTT 120
GTTGGTGGCT AATGAAGTGA GGGGAGGGAG GGATGTCACC CCAAAAGTAG GCCCTCCCAT 180
TGGCTTTGGC CAGGCCAGAC ACTTCACATC GTTTACATGG TTCTGTGTAA TTTTAAAGTT 240
TATGTGTATA AAGCGACGGT TTTCTGTGAA CTGTATATTT TGTAATAATA TATATTGCTA 300
CTTTGN
```

306

## (2) INFORMATION FOR SEQ ID NO: 158:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 310
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00172

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 158:

```
GATCTTCAGA TAAATTCTGC CATTNNTATT TCACTTCCTG AAAGTNAGGG TCGGCTTGTTN 60
AAAAGTTGTT AAACAACATG CTAAATGTGA AATGTCAACC CTCCTCTAA ACTTTCCCTG 120
TTCAGAGCAT CAGATGAAGA CTTCAATTGGG TTTTATAGTG GCTTTCTGAT TTINGGTAGT 180
CCATTGAAGA AGGGAGTTTG AAAGTTGTTG TATACTGTGA ACGATTGTCT GCCCATGTCC 240
TGCCTGAAAT ACCATGATTG TNTATGGAAA GTATCTTTAA TAAAGCTGGA TACAGTTTGG 300
```



CTTGGAGAAA

310

## (2) INFORMATION FOR SEQ ID NO: 159:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 306
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00173

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 159:

```
GATCTACTTT GGAAAAACAA AGGATATCGT CAATGGGCTG AGGTCTGTNC AGACTTTTGC 60
AGACAAATCA AAACAAGAAG CTCTGAAGAA TGACCTGGTG GAGGCTTTGA AGAGAAAGCA 120
GCAATGCTAA ACCTCTGTTT CATGCTAACC AGACACGCCG TGCACTCGTT AGATTCCTTT 180
CTTAGAAAAC TCGTTTTCTG CTCCCTTCCC TCGTCCCTTC CCTCCCCGAC AGGTACATA 240
ACAGCTGCAT CATTGACCGC ACAGCGCCAT CTCTCCCTGA GAATAAAGCC GATAGCCACC 300
NTCAAA 306
```

## (2) INFORMATION FOR SEQ ID NO: 160:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 329
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00174

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 160:

```
GATCTATTGG ACTTTTTTTT GCAGGAAGTG CATTCTCTGG TCCTTCCCTA TTTTCTGTTC 60
TGGATGTCAG TGCAGTGCAC TGCTTACTGT TTTATCCACT TGGCCACAGA CTTTTTCTAA 120
CAGCTGCGTA TTATTTCTAT ATAATAATTG CATTGGCAGC ATTGTGTCTT TNACCTNGTA 180
TACTAGCTTG ANATAGTGCT GTCTCTGATT TCTAGGCTAG TTACTTGAGA TATGAATTTN 240
CCATAGAATA TGCAGTGATA CAACATTACC ATTCTTCTAT GGAAAGAGAA ACTTTTGATG 300
ATGAAACAAT AAAGNTTTTA AATATCAAA 329
```

## (2) INFORMATION FOR SEQ ID NO: 161:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 303
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00175

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 161:

```
GATCTGAATA AAGCAATCT GCATAAATGG TAACCAGTAG CTCTACTTTN ATTTTNNATG 60
TTGCTTAACT GTTTTATTTG AAGGAAACCT GTGTGATTTA AAAAGTTATA GCTTTTGCAA 120
CTTTATTACT GGTTATATAC ATTTGGCCAT TATNATGTGC AAGCAATTGG AAAAAAGTC 180
AAGTAAATGC TTGTTTTTGT AGTAGTTTGT TCTTGTTAAA AATGTTTATA TGATAATGTC 240
TGTAACAGC ATCACTTTGA TTACAATAGA TGTAGTGTTG TAATAAAGTC TTTAATGGGG 300
```

• AAA

303

## (2) INFORMATION FOR SEQ ID NO: 162:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 298
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00176

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 162:

```
GATCTCTCTA GCTTTGTCAT AGTTATGTGA TTTTCCTTTG TAGCTACTTT TGCAGGATAA 60
TAATTTTATA GAAAAGGAAC AGTTGCATTT AGCTTCTTTC CCTTAGTGAC TCTTGAAGTA 120
CTTAACATAC ACGTTAACTG CAGAGTAAAT TGCTCTGTTC CCAGTAGTTA TAAAGTCCTT 180
GGACTGTTTT GAAAAGTTTC CTAGGATGTC ATGTCTGCTT GTCAAAAGAA ATAATCCCTG 240
TAATATTTAG CTGTAAACTG AATATAAAGC TTAATAAAN CAACCTTGCA TGATTAAA 298
```

## (2) INFORMATION FOR SEQ ID NO: 163:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 309
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00177

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 163:

```
GATCTCCTTC ATCCCTCTCC AGAAGAGGAG AAGAGGAAAC ACAAGAAGAA ACGCCTGGTG 60
CAGAGCCCCA ATTCCTACTT CATGGATGTN AAATGCCCAG GATGCTATAA AATCACCACG 120
GTCTTTAGCC ATGCACAAAC GGTAGTTTTG TGTGTTGGCT GCTCCACTGT CCTCTGCCAG 180
CCTACAGGAG GAAAAGCAAG GCTTACAGAA GGATGTTTCT TCAGGAGGGA AGCAGCACCT 240
AAAAGGCACT CTGAGGTCAA GGATGAGGTG GGAANCCAT CTCAATTAAC CACCATTTTT 300
TGGGTTAAA 309
```

## (2) INFORMATION FOR SEQ ID NO: 164:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 295
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00178

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 164:

```
GATCTCGGTA AAAATCTACC ATTCCTTACA TATTTTCCTG ATGGAGATGA AGAGGAACTG 60
CCAGAAGATT TGTATGATGA AAACGTGTGT CAGCCCGGTG CGCCTTCTAT TACATTTGCC 120
TAACATCTTT GGACGTGGCA GAACCTTACA TATTCTGTGA GCTTCGATGA GCCAGAGTGA 180
TATCATAACC ACCAGAAATC ATACTCTCCT TTCTTAGTCA CAACAAAATC ACACATGTCA 240
TCTTTGTCAA GGGCATAAAT ATATCATTCA TACCCCATTA AAATTTTGTT AGAAA 295
```

## (2) INFORMATION FOR SEQ ID NO: 165:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 289
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00179

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 165:

```
GATCCCCACC CCATGTGTTT TAAAAAGGCA GTAGCCTTTG CAGGGACCTG TCTGTCCCAA 60
CTGTTTGAAC AGTGTGCTCC TCAGATTCTG TGTTCAGAAG NCCCCTGNTG CATTGAGACT 120
TGAAACCTTT GGATAGGGGA AAAAATTATA TATATATATA TNNNTTTGTT CTGTTTGCAT 180
TTCTTAATTT GTGCTTGGA TGTGTTGATG TGCACAGCTA ATGATTCAAT GCGAGACAAG 240
ATTGGCGTCT GTGTTGTGGA GGTTTCAAAT AAAGAGCACT CTTCATAAA 289
```

## (2) INFORMATION FOR SEQ ID NO: 166:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 300
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00180

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 166:

```
GATCTGTAAA ATGTGATTTT TACTTCCAC TTATAATACT TGTGATTGGG GAGGTTTGTG 60
GAAATTCAAT TATGATGAAA AACCTATCTT TTTTGTAAATG TTGGCATACT TGGGGAATTT 120
AGTGGCAAAT ACATTCCCCA GCAGGCCTTT TGTGTTGTTGC ACTAACTGCA AGGTTGCTGG 180
GAAGTAGAGT CCATTGTTGTT GATGAGCTTT GACTGCGGTT TTGGAACCTT ACCTCTCCTC 240
CTTAGCCCAA TATGCTGTCT TGGTCTCTAT TCAAATAAAG TTATTTCTCC TGGTCTCAAA 300
```

## (2) INFORMATION FOR SEQ ID NO: 167:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 292
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00181

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 167:

```
GATCAAAAAA CCATCTCCAC ATTTAAAAGA GATGTAAGGT GTATTCATAG GGATGGTGGC 60
TCAACAAATC AAGCAAATG GAATCAAGGG GAGGGGGAAG GGAATNAAAT GGAAAGGGAG 120
GCTGATTCCC TTCCCCTGAC TTACCACTAA TTTACTAGGC TACCTACTTT NATGAGTAAC 180
CTCTCACAGC TACCCAGCAC ATGCCACAAT CCTATGCTCT TGCCTTCTTT NATCTGCACT 240
GTGTGAAGGG ACTCTTTTAA ATAAATNAGC AAGTGTCTTA AGCTATGTCA AA 292
```

## (2) INFORMATION FOR SEQ ID NO: 168:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 292

- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS00182
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 168:

```
GATCTTGGCT GTATTTAATG GCATAGGCTG ACTTTTGCAG ATGGAGGAAN TTCTTGATTA 60
ATGTTGAAAA AAAACCCTTG ATTATACTCT GTTGGACAAA CCGAGTGCAA TGAATGATGC 120
TTTTNTGAAA ATGAAATATA ACAAGTGGGT GAATGTGGTT ATGGCCGAAA AGGATATGCA 180
GTATGCTTAA TGGTAGCAAC TGAAAGAAGA CATCCTGAGC AGTGCCAGCT TTCTTCTGTT 240
GATGCCGTTT CCTGAACATA GGAAAATAGA AACTTGCTTA TCAAACTTA AA 292
```

(2) INFORMATION FOR SEQ ID NO: 169:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 333
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS00183
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 169:

```
GATCCACATG AACGCACGCC TGAGATTTGG CCACTCACCT ATGTTTTGGG TGGATTGCCT 60
AGGAAAGCAA GTCATATGGC CATTGATAGT TCTCATGTAA TTAGTTTTGC TCACCACTAG 120
TACAGATGAC CCGTTTACAC GTGGCTTCCC TCGGAAGCCT CCTCAACAGT AGCTGGTGTG 180
AAAGACTAAA TCAGTAGAGT TGGAAAAGCT TTATAACCGG TGTGTCATAT GCTTGCTATT 240
TAAAGCTGTG TGTTGGTTTT GTTTTTCTGC CACATTCACT AGTTTTTTAA TAAATATTTT 300
CCAAAANTGG AAAAAAANAA NNCCCNCCNN CCN 333
```

(2) INFORMATION FOR SEQ ID NO: 170:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 401
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS00184
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 170:

```
GATCTGGANG GGACACGTCA TGCCTTGGGC CTAGAATACC CTGATGNAA AAGAGAAGAN 60
AAAGGGAGGC CATATCTACA ACACAGCCTC TCGGCACTGC TGCTCCTTAT TTAACTTTG 120
TNTTGCATTG TCCTGTATTT ATCACAGTTT CTGTTGAACA GCTTTTCAAG TATTTGGGGA 180
GTTTATCTTG CCATCCTCCC CTTCTGGTTC TCTGCACCCA CCTGTCCCAC TGCAGTTCCT 240
TCCGTGCTCT GTGACTTTAA GAGAAGAAGG GGGGAGGGGT CCCGATTTT ATGTTTGTGTT 300
GNTNTTCTC CTTAGCAGTA GGAATTGATA TTTTCAATTT TGGAAGAACT AAAAGATGAA 360
TAAACTGGGT TTTTTTTGTT GTTTGNTTTT GNAAATTCAA A 401
```

(2) INFORMATION FOR SEQ ID NO: 171:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 305

(B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00185  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 171:

```

GATCGAGCTC GCCTATNAGC AAGTGGCAAA CCCCCTCAAA TAAGCCCCTC CTGGGACTCC 60
CTCAACCCCC TCCATTTTCT CCACAAAGGC CCTGGTGGTT TCCACATTGC TACCCAATGG 120
ACACACTCCA AAATGGCCAG TGGGCAGGGA ATCCTGGAGC ACTTGTTCCG GGATGGTGTG 180
GTGGAAGAGG GGATGAGGGA AAGAAATGGG GGGCCTGGGT CAGATTTTTA TTGTGGGGTG 240
GGATGAGTAG GACAACATAT TTCAGTAATA AAATACAGAA TAAAAATCAA GTGTTTTTAC 300
GCAAA 305

```

(2) INFORMATION FOR SEQ ID NO: 172:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 289  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00186  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 172:

```

GATCTGAGGC AAGCTGGACA GGAGAGGTGG ATATTNTTGG ATGGAAGAAT TCAAGTTTAT 60
AATCAATTCC CACTTAGCAC CTACTGTGTG CTAGGAACCT GAATGTGTAT GTTTGACAAG 120
TCCTGCTTGG CCTGATGGGT GGGAGANGGA ACCTGAGCCT GGCTGAGATG GCTAGGCGGA 180
GGGCTTTGAA GTCCAAGCAG CTGAACTGGC TGGGTGGGTT TCTACCTTTG AAAGTGCAAG 240
ACTTNTTTTG GAGCTCTTAA TTACAATATC TGATATTTTT ACAGTCTGN 289

```

(2) INFORMATION FOR SEQ ID NO: 173:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 286  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00187  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 173:

```

GATCCCTACC CTTNCCGTTG GTCTCTNTCG CTGACTCGAG GCACCTAACA TCCATTACACA 60
CCCAACACAG GCCAGCGACT TCTGGGGCTC AGCCACAGAC ATGGTTTGTN ACTNTTGAGC 120
TTCTGTTTCT AGAGAATCCT AGAGGCTTGA TTGGCCAGG CTGCTGTNTG TNCTGGAGGC 180
AAAGAATCCC TACCTCCTAG GGGTGAAAGG AAATNAAAAT GGAAAGTTCT TGTAGCGCAA 240
GGCCTGACAT GGGTAGCTGC TCAATAAATG CTAGTNTGTT ATTCN 286

```

(2) INFORMATION FOR SEQ ID NO: 174:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 290  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single

(D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00188  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 174:

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| GATCGGGTTC | TAAAGGAAAG | GGTGGAGAGA | TTCAACCACT | TAGCGTGAAA | GTTGGAGATA | 60  |
| AAGTTCTTCT | CCCAGAATAT | GGAGGCACCA | AAGTAGTTCT | AGATGACAAG | NATTATTTCC | 120 |
| TATTTAGAGA | TGGTGACATT | CTTGGAAAGT | ACGTAGACTG | AAATAAGTCA | CTATTGAAAT | 180 |
| GGCATCAACA | TGATGCTGCC | CATTCCACTG | AAGTTCTGAA | ATCTTTCGTC | ATGTAAATAA | 240 |
| TTTCCATATT | TCNCTTTNAT | AATAAACTAA | TGATAACTAA | TGNCATCAAA |            | 290 |

(2) INFORMATION FOR SEQ ID NO: 175:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 284  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00189  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 175:

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| GATCAAGGCG | CGGACGTATC | TACGACCACA | TCAACGAGGG | GAAGCTGTGG | AAACACATCA | 60  |
| NGCACAANTA | TGACAACAAG | TAGTTCCTTG | GNGGCCCTAT | CCAGGCCAGA | AGGCCANNGC | 120 |
| CACCCAGCAG | CTGTTTGCCA | GAGCTGGAGC | TCAGTTGAAG | ATGATGCTCA | AGGTACTCTT | 180 |
| CATGGCCACC | ATTCGTGTTG | GAAGAACGNT | TTACTNCNNA | CAGCTCTTTA | CCTTCTGTGT | 240 |
| GTTCNAGNTG | TTAGNAGATN | TCAGGAATAA | TGTGATTGCC | TTGN       |            | 284 |

(2) INFORMATION FOR SEQ ID NO: 176:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 282  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00190  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 176:

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| GATCAGAACA | TGAAATGCCC | TCCTAAATGT | CAGCTGTTGT | CACACAGTAG | CTCCAACACT | 60  |
| TTGAGCATTT | TTAAGGGAGT | GGCCTCATTT | CACTAGAGAC | AAATCTTTAA | GAATAGTTCT | 120 |
| AAAATTGGGC | TTGTGATTTC | CATTTCTGAT | GTCTCCAGAT | TGGCACCCCT | TTCTAGTTCA | 180 |
| ATGCCTCACG | AGATTTTGCC | AGGGGCATCC | AAGGCAAACA | ATCCCAATCT | TTCTATATAA | 240 |
| ANTGTATTCA | AGCAAACATC | AAATAANTTT | CTGGGATATT | TN         |            | 282 |

(2) INFORMATION FOR SEQ ID NO: 177:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 278  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00191

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 177:

GATCAGAGTT TGAAATGAAA TGTTTGTCTAG GGTGTTGGAA AAATTTTGGT GAGTTCTGCA 60  
 CATTTCCTT GGTTCAGGCT GGGCATGGAC CAGCCTTCAG ATGGCAGAAG TGGAAGATGA 120  
 GCCTACTTGT GAGCGATGTG ACTTTAAGGA AATGAAGACT GGGGAAGAAT AATTAGTGTT 180  
 TATAAGACAT TTAAGAGGCC CTTTTTCATA TACTGACTCA CTGATGAATC AGCATTNGCA 240  
 TTNTATGGAA NAATATAAAT CCAAAGAAAT AATTTAAA 278

## (2) INFORMATION FOR SEQ ID NO: 178:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 281  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00192

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 178:

GATCAAAATA ACCCTCGTAA AAATATATGT ANGGGGTACA CAAAGTAAGC CTCTTTATGA 60  
 AACAAATTGAG GATAATNATG TGAAAGGTTT TAATGATGAT GTTCTACTTC ANATAGTTCA 120  
 CTTTCTACTG AATAGACCAA AAGAAGAAAA ATCACAGCTG TTGGAAAAC TAAAAAGCAT 180  
 ATTTNATTGA GAAGTGTGGG AATATTTAAA TTTTACTGAA GGACCAATAA TGATGAGATT 240  
 TGTAAGTGT CAACTATTAA TACATTGATT TTTGAGACAA A 281

## (2) INFORMATION FOR SEQ ID NO: 179:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 278  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00193

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 179:

GATCAGGCCC AGGAAGGGCA CAGGGGCTGA GCACTACAGA AGTCACATGG GTTCTCAGGG 60  
 TATGCCAGGG GCAGAAACAG TACCGGCTCT CTGTCACTCA CCTTGAGAGT AGAGCAGACC 120  
 CTGTTCTGCT CTGGGCTGTG AAGGGGTGGA GCAGGCAGTG GCCAGCTTTG CCCTTCCTGC 180  
 TGTCTCTGTT TCTAGCTCCA TGGTTGGCCT GGTGGGGGTG GAGTTCCCTC CCAAACACCA 240  
 GACCACACAG TCCTCCAAA ATAAACATT TATATAGN 278

## (2) INFORMATION FOR SEQ ID NO: 180:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 278  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00194

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 180:

GATCTACATT AATATCAAGT CTTGACTCCC TACTTCCCGT CATTCTCAC AGGACAGAAG 60  
 CAGAGTGGGT GGTGGTTATG TTTGACAGAA GGCATTAGGT TGACAACTTG TCATGATTTT 120  
 GACGGTAAGC CACCATGATT GTGTTCTCTG CCTCTGGTTG ACCTCNACAA AAACCATTGG 180  
 AACTGTGACT TTNAAGGTG CTCTTGCTAA GCTTATATGT GCCTGTTAAT GAAAGTGCCT 240  
 GAAAGACCTT CCTTAATAAA GAAGGTTCTA AGCTGAAA 278

(2) INFORMATION FOR SEQ ID NO: 181:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 277  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00195

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 181:

GATCTCTCCC CCGTGAAGGA GTTGAGCACA TTAGCAACAA TGTACATTAA TTTTGGATTT 60  
 TCATTTTCAT GTTTTATTTT GTAAATATTA TCTGATGTTT GGAGCTTGAG TATACAGACT 120  
 GTAAATATAG TTCTTGATT TGTACTAATT CTGATTCTTT TGCTNNCNG CTTAGATGT 180  
 GCAATGCAGA CACTATCTAA CTGTGTGTGG TAACCTTGCG TCACGGAGCT GTTAGTGAAC 240  
 GAGGTAAAAA TAATAAAGGT ACAGCCAGTG CATCAAA 277

(2) INFORMATION FOR SEQ ID NO: 182:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 282  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00196

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 182:

GATCAAAACN GATTACGGT GGGGGAGGAA TNTGAGCTGG AGACAATNAC AGGGGAGAAA 60  
 GTCAAGACAG TGGTTCAGTT GGAAGGTGAC AATAAACTGG TGACAACTTT CAAAAACATC 120  
 AAGTCTGTGA CCGAACTCAA CGGCGACATA ATCACCAATA CCATGACATT NGGTGACATT 180  
 GTCTTCAAGA GAATCAGCAA GAGAATTTAA ACAAGTCTGC ATTTTCATATT ATTTTAGTGT 240  
 GTAAAAATTA AATGTAATTA AAAGTGANCT TTNGTTTTTA AA 282

(2) INFORMATION FOR SEQ ID NO: 183:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 277  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00197

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 183:

GATCCAGATG ACCGTGGTNG TTGGGGTATA TCTCCTCGAG GAGCTGGTTA CACCTTTGGG 60  
 CAAGATATTT CTGAGACATT TAATCATGCC AATGNGCTCA CGTTGGTGTC TAGAGCTCAC 120  
 CAGCTAGTGA TGGAGGCATA TAACTGGTGN CNNGGCCCGG AATGTAGTAA CGATTTTCAG 180



TGCTCAAACCT ATTGTTATCG TTGTGGTAAC CAAGCTGCAA TCATNGANCT TTTGCGATAC 240  
TCTAAAATAC TCTNTCTTGC AGTTTCACCN AGNNNNN 277

(2) INFORMATION FOR SEQ ID NO: 184:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 277
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00198

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 184:

GATCTGAGAT TTCCGTGTTT GGCTGAACCT GGGAGACCAG CTGGGCCTCC AAGTAGGATA 60  
ACCCCTCACT GAGCACCACA TTCTCTAGCT TCTTGTTGAG GCTGGAACCTG TTTCTTTAAA 120  
ATCCCTTAAT TTTCCCATCT CAAAATTATA TCTGTACCTG GGTCATCCAG CTCCTTCTTG 180  
GGTGTGGGGA AATGAGTTTT CTTTGATAGT TTCTGCCTCA CTCATCCCTC CTGTACCCTG 240  
GCCAGAACAT CTCACTGATA CTCGAATTCT TTTGGCN 277

(2) INFORMATION FOR SEQ ID NO: 185:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 277
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00199

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 185:

GATCGGTTTT TGTTTCCTGC TTACCATATG ATTGTAAATT GTTTTATGTA TTAATCAGTT 60  
AATGCTAATT AATTTTTGCT GATGTCATAT GTTAAAGAGC TATAAATTCC AACAAACCAAC 120  
TGGTGTGTAA AAATAATTTA AAATTTTCCTT TACTGAAAGG TATTTCCCAT TTTTGTGGGG 180  
AAAAGAGCCA AATTTATTAC TTTGTGTTGG GGTTTTTTAAA ATATTAAGAA ATGTCTAAGT 240  
TATTGTTTGC AACATAAAT ATGATTTTAA ATTCTCN 277

(2) INFORMATION FOR SEQ ID NO: 186:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 276
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00200

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 186:

GATCCTGACA CTGACATGAA GGCAAGCCTT GATTCGTAT GAACGTTGCT GAAGTGGTAA 60  
TTGAGGAAAA CAGTTCCCCA GATTGTTAAG AGTTCACTGA AGATATTGAC ACAATTTNNA 120  
AAAATCAGTA AAGGAATGTA TATAATATTG CNCTCGTGTT TTACAGTAAG ATTTGTTGCT 180  
CTCAGACTGT GTAAAACAAA ATTNATNGNT GTTTTCTGCA TTTTAAAAAA TCTTATTGTA 240  
CCANCTGGTA ANCTATTAAN TGCCTATAAN NCTAAA 276

## (2) INFORMATION FOR SEQ ID NO: 187:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 275
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00201

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 187:

```
GATCAAGGAN GAAAGANTGA CTTCAAATAT GCCTTGTTAG TGTAATGTG ACTTNTNGAA 60
CTGTATGAGT ATTTTAAGAT TATTNGAGTA AAGTAAGTTT TAAAAAGCAG TCCCTAATCA 120
TCAAAAGTAA AAAACTCTTG ATGTAGTCAT ATAACCACAC TAAGAACTCT TCCAGGTGAC 180
TTCAAAACAT AGGACAGTAC ATCTCTAGTA GANTNTGCCC TGAGAATGAA AAGAATGTAA 240
CAGTGTTAGT ATTTTGAATA AACATGTTAT TACTN 275
```

## (2) INFORMATION FOR SEQ ID NO: 188:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 273
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00202

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 188:

```
GATCACTTTT TTTAGAGTGA AGAAAGAACA ANCTTGTTTT TTGTGTTTTT TAAAGGAATA 60
TAAATAATG AAGGATGTAT AATTGATGCC AAATAAGCTT GTNCTTTAGT CACACCGACG 120
TCTTATTTTT CCCTTTAGGC CAGTTCTGTT TTTAAGGTGT ACATGGNCAA TGTTACAGTG 180
TAAGAACTC CATATCCATA TGTNCCCATT CGCATTTTGT ATTGTTTCAT GTATACCATT 240
TTTNCAAAAN ANANGGAANA ANNGGNAGTN CTN 273
```

## (2) INFORMATION FOR SEQ ID NO: 189:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 271
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00203

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 189:

```
GATCTGAAAA GCTCACTTTA AACTCATACT ACATTTCGTNA CGAGTATTTN ACGTTAACAT 60
AATTGAAAAG TACAAGGTCC AAGCTGGCTT TCAAATNATG TCTAAACAGA AATGGGACAA 120
ATAGACTTGA AAATAGAAGG GATTTATTCC ACCCCTGCAA GGGTAAGAGT CAGGTGAGAG 180
TCCCTTGGTG AGTCATTTGT ACATCAGTGT CATTTCTTCT TAACCTCTGA AGAAAGATGG 240
GCATCAGAAA TAAAGACAAA GCACTATCAA A 271
```

## (2) INFORMATION FOR SEQ ID NO: 190:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 270

(B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00204  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 190:  
 GATCTGCCAC GAGGGCAGCA GCCAAGAGGA CTTGCTCTCT CCATGTGAAT GTACAGGGAC 60  
 CTTGGGGACA ATTCATCGGA GCTGCCTGGA GCACTGGCTG TCATCCTCAA ACACCAGCTA 120  
 CTGTGAACTC TGCCACTTCA GGTTTGCAGT CGAGCGAAAA CCCAGGCCGT TAGTGGAGTG 180  
 CCTGGGAAAC CTTGGCCCCC AGATTGGGAG GGGNCTTTTT TTTGGNGANA TGGTNNNTTT 240  
 TGGGTTNTAA ATCNCCNGGG NNCCATNTNN 270

(2) INFORMATION FOR SEQ ID NO: 191:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 166  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00205  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 191:  
 GATCTCTGAG CTGCCCAGCA TAGTCCAAGA CCTAGCCAAT GGCAACATCA CATGGGCTGA 60  
 TGTGGAGGCC AGGTATCCTC TGTTTGAAGG GCAAGAGACT GGTAATAAAG AGACAATCGA 120  
 GGAATGAGGA CAATTTTGAC AACTTTTGAC CACTTGCGCT AATAAA 166

(2) INFORMATION FOR SEQ ID NO: 192:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 276  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00206  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 192:  
 GATCTACATG AGAAGTATAG TGGCTCTACC CCCTGAAAGA GGGTGGATGC AGCTGCTTGT 60  
 GTTTCCTTGGG GTGACTGTCA TTGGTAATAC GGACACAGTG ACCCATCCTC CATCCTATTT 120  
 ATAGTGGAAG GGCCTTCAAT TGTATCAGTA CTTTNTTTTA AGCTCTGGCA CATTGACCTC 180  
 TATGTGTTAC CAGTCATTAA TGAGCTGCTG CAGAGGTGAC TATTTGTTTT ACTTTCTTGG 240  
 ATGTTAACAT TACACTACTC ACTACTCAAT CTCAAA 276

(2) INFORMATION FOR SEQ ID NO: 193:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 273  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00207

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 193:

GATCTGACAT TTGACATGAA CACAAAGTTG CTAGATGCTC TTGTTGACTT CCAGCAGATG 60  
 GGATGGGGGA AACACAGCAG TTCTTGGTAA AGTCCTTTGT AATAATAGTT TGATTTTTTT 120  
 ATTTGAGAG AATCTTTCAT TTTCTATGT ATGCTTTTN CCTTTTTTGC CCAGTTTCCT 180  
 TATCACTTGC TG TAGATGGC TTATNTNGCA TTCATGCAGA CTATGTTGCA AGTCTGTTTC 240  
 ATCTAGTAAA CTGAAAATNA TTGCTTAATC AAA 273

## (2) INFORMATION FOR SEQ ID NO: 194:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 267  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00209

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 194:

GATCCCAGAG AGGGAAGAGA ACCAGGGGCC CTTTCTCTT TNAGAATTTN CTTTAAATCA 60  
 GCCCACCTTT TGA CTCCCCG CCCGCCCAA TCCATTATNT TTTTCTGCCT TCCGGGTCCC 120  
 ATCCTTAGAG CTCGAGTCGT TCCTTCCCCCT CCTGGATTCC GGGTAGCAGA GGCAGCGCCG 180  
 CAGGAGGCGG GTGCCCGTTT GTCCCAGGNC TGGGCGTGGT GGAGNNAGGG GTGCTGGAAC 240  
 AATAAACGGC ACNNNNCAAA TGTCAAA 267

## (2) INFORMATION FOR SEQ ID NO: 195:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 384  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00210

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 195:

GATCCAAAAC ACTACTCAGC TCTCTGAC TGAGGAAATT TTTCCCCCTA CATTGACTCC 60  
 TGGCCTACAT CAGCCAACT TAACCTTGGT GGGGTTTGA TTTGATAGCC AATTAGTTCT 120  
 GTGCTGGTTG CAAAGAATTG ATATTTAGAT GGTTTTTAAT ACTCAGCAGA TTGTCTTCCT 180  
 TTATATTGTG TCTTTTTTAT GTNGCATGTN GCTTTTGTTA TCAGCCTGAT TTTTGTCTCA 240  
 GTATATGATA GTNCTGCTGA TGTTTTGTTT ATTGGGCAGA CATATCTTCA TTAAGAGTTT 300  
 TTGGAAAAC CATCAAATTC GATGAATACA TTTTCTTCAT AACCCATTG GAATTATTCC 360  
 TAATAAAATG ATAAATACG TAAA 384

## (2) INFORMATION FOR SEQ ID NO: 196:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 277  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00211

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 196:

```
GATCTAAAAA AATTCAGAAG AAATATGATG AAAGGAAAAA GAATGCCAAA ATCAGCAGTC 60
TCCTGGAGGA GCAGTTCCAG CAGGGCAAGC TTCTTGCGTG CATCGCTTCA AGGCCGGGAC 120
AGTGTGGCCG AGCAGATGGC TATGTGCTAG AGGGCAAAGA GTTGGAGTTC TATCTTAGGA 180
AAATCAAGGC CCGCAAAGGC AAATAAATCC TTGTTTTGTC TTCACCCATG TAATAAAGGT 240
GTTTATTGTT TTGTTCCAC ATTTATGTTG CCTGAAA 277
```

(2) INFORMATION FOR SEQ ID NO: 197:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 271  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00212

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 197:

```
GATCGGCGGC GCGCAGNAAC CGCTCCTACA GCAAGCTGCT GTGCGGCCTG CTGGCCGAGG 60
CGCCTGCGCA TCAGCCCGGA CAGGGTCTAC ATCAACTATT ACGACATGAA CGCGGCCAAT 120
GTGGGCTGGA ACAACTCCAC CTTCGCCTAA GAGCCGCAGG ACCCACGCTG TCTGCGCTGG 180
CTCCACCCGG GAACCCGCCG CACGCTGTGT TCTAGGCCCG NCCACCCCAA CCTTCTGGTG 240
GGGAGAAATA AACGGTTTAG AGACTAGGAA A 271
```

(2) INFORMATION FOR SEQ ID NO: 198:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 264  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00213

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 198:

```
GATCCTGTAG TGTTCTTGGG GAAGCTAGAG CCTGATTGTA GGCTACTACT CATCAATTAA 60
CTTCTACAGT GGAGACTACT TCTGGGACTG GAATATAAAA AAGAATCAAA GGTTCCTGATT 120
TTNAGTTGCA ATAAAGGGAA AGACCATGCT CATAGCAGTG CCAACATCTG AAGTGTGGAG 180
CCTTACCCAT TTCATCACCT ACAACGGAAG TAGTTAACTG GAAGAGATTA CCAAGAGAAT 240
AAAAAGAGAC TCATTTCAGTG GAAA 264
```

(2) INFORMATION FOR SEQ ID NO: 199:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 257  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00215

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 199:

```
GATCTGCCTT AAAGAAAAGA AAATTTTAGA AAGAAATATT GTTGCTCAGT GTTGTTAATA 60
```

TAGCTCAAGA ATTGAGTTTA TATTTGCAGT ATGCTATAAA TGATACCCCC CTACCACACC 120  
CACACACACA GTTTTTGTCT AATGAAAATG TTGCTGTGAT TATTTATAAT TGGTAGTATT 180  
TCTTCCAGAA GAAGCTAAAA TAAGACTGGC ACTTACCCTG AAGTGCATTA ATAAAACCAC 240  
ACTTTAAAT TAANAAA 257

(2) INFORMATION FOR SEQ ID NO: 200:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 374
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00216

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 200:

GATCAACCTG AGCNTGGAGA ATGCCTGGGG CATTTAACGC TCGTTCATTG ACATCTGCAT 60  
GAAGCTGGAG GAGGGCAAAT ACCTCATCCT CAAGGACCCC AACAAGCAGG TCATCCGTNT 120  
CTACAGCCTC CCTGATGGCA CCTTCAGCTC TGATGAAGAT GAGGAGGAAG AGGAGGAGGA 180  
AGAAGNGGAA GAAGATGNGG ANGAACTTA AACCAGTGAT GTGGAGCTGG AGTTTNTCCT 240  
TCCACCGAGA CTACGNGGGC CTTTATGCT TAGTGGAATG TNTGTCTAAC TTTGCTCTCT 300  
TGACATTTTA GCAGTTGAAA TTAAATTATA TANTCTGTTT TNNGTCTTTT NAAATAAANA 360  
AAANNANATT NTGN 374

(2) INFORMATION FOR SEQ ID NO: 201:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 256
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00217

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 201:

GATCTGAAC ATTGCTTTT TCTTCAAGAT AAGTTGTATT TTACCATGGA AAAATACAGT 60  
ATCTAACATT ACCATTCACG TTAAATGAAG TTTCTCATA ACATTTATCT TTAGTTTTAT 120  
GAAGTCATCG TGACCAATGT TACAGTAATT TCTGTTAGCT GATTGTGGTA AACAATGTTT 180  
AATGNGAAAA GAAATTAAAA CTTTCTTCAT CTGTTGTAGA ATATTTCTCT TCTTTAAAT 240  
GGCTTCTATT CATAAA 256

(2) INFORMATION FOR SEQ ID NO: 202:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 256
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00218

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 202:

GATCCCCACT GGAGCAGCCT CTGCAAAGG GAGCCCATGT AGTGGCCAGG GGCTGTCCAA 60  
ACTCCAGCTT CTTCCCCTGG GAAAAACCC AAAGAACCAA AAACAAACCA CCCCAGGAT 120

AATAATAGCT ACACTGCTAG CTTCTCAAGT TCTTGTGAAA AACAATTTAC ATAATGACAC 180  
 AGTAGATGTG GAACACCTAG CCAGTGCCTG GGCAGGTCCC TATTATCATA AATGAACATA 240  
 AAGTGCTCTA AAAACN 256

(2) INFORMATION FOR SEQ ID NO: 203:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 265
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00219

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 203:

GATCCAAATC AGGAAAAGAC GGCGCCACTA CAATGGAGAA GCATATNAGG ATGATGAACA 60  
 TCATCCCAGA GGTGGTGTTC AGTGTCAGAC CTCTTAATGG GCCAGTGAAT AACACTCACT 120  
 GCTGGCATT T AATGTGCAGT AGTGAATGAG TGAAGGACTG TAATCATAAT ATGCTCACTA 180  
 CTTGCTCTTG TTTTGTGTTT AATAAACTAT AGTAGTGTTA TAANNNGTTA AATGAAGAAT 240  
 AAACGCAAT ATAANAGCTC TGAAA 265

(2) INFORMATION FOR SEQ ID NO: 204:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 253
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00220

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 204:

GATCTAAAGA GACACTTAGA GACTCTTGGG GACCTCAGAT TTCCACCNCT CCACAGCATT 60  
 CTGCCTACAC AGTTCCCCTC ATTTTNCCTA GTTACTCGGA AGAGCGCTGG ACTTGAAATC 120  
 AAAATAATTG CGTTATGTCT TTGGTTATGT CGCTTCATCA TAGCACTTTC TAAAACTATT 180  
 TGACAAACAT GTATTGCATA CCTACNGCAT TCCAGTTCTN GTACANGTAA TTAAATGCTC 240  
 GACTAACGNN AAA 253

(2) INFORMATION FOR SEQ ID NO: 205:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 253
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00221

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 205:

GATCTGGAAT TGGACATTTT TCTGTCAGAG CACAGAGGAG GCTCATATCA CCTCTTCCCT 60  
 CTCCTACTTG GCCCAGCTGC TTGGAGGACC GACCCCATGG CTGAGAATAT NACGGCAAGA 120  
 GGAACAGAGN TTGCTCCAAG TGGGAAAGGG TCCCAAGCAG TCCAGAGAAG ATGTCTGTGT 180  
 GGCTTTCCCT CCCTGCCTCC CCCAGCTCCC AACTGGCCT TTGTAAATAA ATGGCGTGGT 240  
 CTTTGTGTG AAA 253

## (2) INFORMATION FOR SEQ ID NO: 206:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 253
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00222

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 206:

```
GATCTGCCGT CTGTCACCTC TCTCCAAGTT GAGACAGGGG CCTGGATTTC AGCCCTTCCT 60
GCCGAGAAAT CTTNTAAATT TCAACCTACC TTAAAAATA AAGTCTCCCT ACTTAAATC 120
CAGTAGATAT CATGGCACTA ATGCTAACAC CCCTTTCCCC AAATTAATAA AACAAAAATA 180
AAAAAAGAA AAAANTGCAG GCATGCAAGC TTGGCGTANT CATGGNNTNA GCTGTTTCCC 240
NGTCACGGCG TGN 253
```

## (2) INFORMATION FOR SEQ ID NO: 207:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 251
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00223

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 207:

```
GATCGAGACA CGTGATGGGA AGCTGGTGTC TGAGTCCATN ACGTCCTNCC AAGTGAACAG 60
CTGCGGCAGC CCTCCAGCC TACCCCTCCT GCGCTGACCC AGAGCCTGGG AAGGAGGCCG 120
CTATGAGGGT AGCACTGGGA ACAGGAGACC CACCTNAGNC TCAGCCTNGC CTCAGTNTAC 180
TGGGGAGTTT ACTACCTGGG GCCCANTTGA CATGCTCCAG CTACANACAN TTANTTGCTT 240
TTTTNTTGGN N 251
```

## (2) INFORMATION FOR SEQ ID NO: 208:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 243
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00224

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 208:

```
GATCGATTCT TGTATATTNA TTTTATCTCT TTCTGTATCT ATAGGTAAAT CTCAAGGGTA 60
AAATGTTAGG TGTTGACATT GAGAACCCTG AAACCCCATC CCCTGCTCAG AGGAACAGTG 120
TGAAAAAAA TCTCTTGAGA GATTTAGAAT ATCTTTTCTT TTGCTCATCT TAGACCACAG 180
ACTGACTTTG AAATTATGTT AAGTGAAATA TCAATGAAAA TAAAGTTTAC TATAAATAAT 240
AAA 243
```

## (2) INFORMATION FOR SEQ ID NO: 209:

## (i) SEQUENCE CHARACTERISTICS:



(A) LENGTH: 249  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00225  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 209:  
 GATCACANTT AATGATTGAG TATAATGTTT GAGGCCAGAC AAGATATATA TTGTGCCTCT 60  
 TACAGCCTTT GGNMNCNMTT TTTCCATTTT TTAAATATCT TCTATATCCA TATAGTATTC 120  
 AAATNATTAA TGCTCATGTA CCAAGGTTTT GCTATAAAAG TTTTGNCTGT ATGAATAATG 180  
 TGGCTTTAGT AAATAATCAT TTTTCAACTG TAACTTATT CTGAAATAAA GTAAAATTCT 240  
 AATTGTTTN 249

(2) INFORMATION FOR SEQ ID NO: 210:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 248  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00226  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 210:  
 GATCATAGAA ATATATGTAA AGTATTCAAT TTTCAATCAT TTTCAAATNA CTGTTATAAA 60  
 TTGTTTTTGC TGAGTTGTAA TACTTTTNAG ATACAATGTA TTCCTTGTA TGAAGAATG 120  
 AAAAAGGACT TTTTCAGCAT TTGAGGTAAG TNCTTTAACG TTTCATTAAA ANCATTTTTT 180  
 ACAAATATTT TGTACATGCA CTTGCAGTAT TGAGGTTAAT CATTTTAATA AATNCGGAAA 240  
 TTAAAACN 248

(2) INFORMATION FOR SEQ ID NO: 211:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 247  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00227  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 211:  
 GATCTCAGCN TTGCAAACAC ANTTNCTACA TAGATAGTAC TAGGTATNNT TTAGATATGT 60  
 AAAGAAAGAA ATCACACCAT TAATAATGGT AAGATTGGTT TATGTGATTT TAGTGGTATT 120  
 TTTGGCAGCC TTATATATGT TTTCCAACT TTCAGCAGTG ATATTATTTT CATAACTTAA 180  
 AAAGTGAGTT TGAAAAGAA AATCTCCAGC AAGCATCTCA TTAAATAAA GGTGTGTCAT 240  
 CTTTAA 247

(2) INFORMATION FOR SEQ ID NO: 212:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 256  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single

(D) TOPOLOGY: linear  
(vii) IMMEDIATE SOURCE:  
(B) CLONE: HUMGS00228  
(ix) FEATURE:  
(D) OTHER INFORMATION: "N"=unidentified base  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 212:  
GATCAAAACA AACAAATCCAG ATGTATAAGT ACTAGGCAGA AGCCAATTTT AAAATTTTCCT 60  
TGAATAATCC ATGAAAGGAA TAATTCAAAT ACAGATAAAC AGAGTTGGCA GTATATTATA 120  
GTGATAATTT TGTATTTTCA CAAAAAAAAA NGTTAAACTC TTCTTTTCTT TTTATTATAA 180  
TGNCCAGCTT TNGGTATTTT ATTGTTACCA NGTTCTATTT TTNGANTAAA ATTGTTCTCC 240  
TTCTAAANGT TTAAA 256

(2) INFORMATION FOR SEQ ID NO: 213:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 244  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear  
(vii) IMMEDIATE SOURCE:  
(B) CLONE: HUMGS00230  
(ix) FEATURE:  
(D) OTHER INFORMATION: "N"=unidentified base  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 213:  
GATCGGCAAG CCCCACTG TCCCTTGCAA GCCAAGGCCA CCTTTNATGC CATTTCTAAG 60  
ACCTACAGCT ACCTGACCCC CGACCTCTGG AAGGAGACTG TATTCACCAA GTNTCCCTAT 120  
CAGGAGTTCA CTGACCACCT NGTCAAGACC CACACCAGAG TCTCCGTGCA GCGGACTCAG 180  
GCTCCAGCTG TGGCTACAAC ATAGGGTTTT TATACAAGAA AAATAAAGTG AATTAAGCGT 240  
GAAA 244

(2) INFORMATION FOR SEQ ID NO: 214:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 243  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear  
(vii) IMMEDIATE SOURCE:  
(B) CLONE: HUMGS00231  
(ix) FEATURE:  
(D) OTHER INFORMATION: "N"=unidentified base  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 214:  
GATCAGATTG GGTCTGCTC CTCTCAACCT TGAAGTCCCC ACGTATGAGT TCACCAGTGA 60  
CGATATGGTG ATTGTTGGTT AAGAGACTTG GACTCAAGTC ATAGGCTTCT TTCAGTCTTT 120  
ATGTCACCTC AGGAGACTTA TTTGAGAGGA AGCCTTCTGT ACTTGAAGTT GATTTGAAAT 180  
ATGTAAGANT TGATGATGTA TTGGCAAACA TTAATGTGAA GTAAATNGAA TTNAATGTNG 240  
AAA 243

(2) INFORMATION FOR SEQ ID NO: 215:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 243  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear  
(vii) IMMEDIATE SOURCE:  
(B) CLONE: HUMGS00232

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 215:

GATCGCCAGT GGAAGAAGAT TAGTGCAATC ATTGAGAAGA GGAAGAAGAT GGAAGCTGAT 60  
 GGGGTTGAAG TCAAAAGACC AAAATACTAA TCACTAGTTA CAACCAGAGA TGCTCCACAA 120  
 GGATATGCTC CCCACGGTTT TCTTTCTACA ATTTCCAAAG GTTGCAAGAT GTTTTTTTGT 180  
 GGATGAATAT AAAATTTTAT TGTGTAATTA CTTGGTTCCA TTAATTTGG TTAAGTTGCT 240  
 AAA 243

## (2) INFORMATION FOR SEQ ID NO: 216:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 243  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00233

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 216:

GATCGTAGAT GTTAACCAAA TCTACAAAT CCACTACTCC CCCGTTATCA ACGGGATACG 60  
 TTCCAAGACC CCCAGTGGAT GCCTGAACT GGCTAATGCT GAACCCTACA TATACTATGT 120  
 TTTTNCCTGTA CATATATATG ATAAAGTTTA AATNATAAAT NAGGTACAGT AACAACAATA 180  
 ACAGTAAAC AACAGTTATA ACAATATACT GTAATAAAAG TCATGTGAAT GTGGTGTTTC 240  
 TCN 243

## (2) INFORMATION FOR SEQ ID NO: 217:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 242  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00234

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 217:

GATCTTCTCC AGATTGGCAG AAAGTTGATA TAGGTGGACT TTTTACAGG TCAGTTGAGG 60  
 CAAAAAATA TGGGTTTTTT CAGGTGAACC TCCCCATTT AAATACTCAG AAGATAAGGT 120  
 GTGAATGTAT GTATTATTAG AGTCCTAAAG TATTTTATAA GTACTGGTTT CACCACGCTT 180  
 TGTGGGAGAG AAATCATTCA AATCATTTTT TTTGTCCGTA CAATAAAGTT TACTAAAAAC 240  
 CN 242

## (2) INFORMATION FOR SEQ ID NO: 218:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 238  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00235

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 218:

GATCTTCGTG ATACTGTACA TAGCTGTTTG AAATGCCAGA ATGACTTCTG ACATNCCAAG 60  
 TTTTTCACAA AATATATTTN ATCTGTGATT AGCCATTTGA CTAATAATAC TGGCTAACAG 120  
 ATGTTGAAAA AAATTGTCTG TTTTCTCATT AATTTTGGTC TAAAACATGT TTGCACTTGT 180  
 NTTTGA CTG TGT TTTATTA ACATTGATTG GCATATTAAA AGTCACTCNG AGCTTAAA 238

(2) INFORMATION FOR SEQ ID NO: 219:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 239
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00236

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 219:

GATCCAAANN ATGACTTCAG AAAAACTTG AAAGTAACAG CAGTGCCTAC ACTACTTAAG 60  
 TATGGAACAC CTCAAAACT GGTAGAATCT GAGTGTCTTC AGGCCAACCT GGTGGAAATN 120  
 TTGTTCTCTG AAGATTAGA TNGGTAGGAT GGCAATCATG TCTTGATGTC CTGATTTGTT 180  
 CTAGTATCAA TAACTGTAT ACTTGCTTTG AATTCATGTT AGCAATAAAT GATGTTAAA 239

(2) INFORMATION FOR SEQ ID NO: 220:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 250
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00237

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 220:

GATCAGAGGT GAAGGGACAG AGAGAGGAGA GGAGGAAGAT TGAGCTGGGG GCAACAGCCA 60  
 AGCTCACCTG GGCAGGTCTC TGCCACCTCC TTGCTCTGTG AGCTGTCAGT CTAGGTTATT 120  
 CTCTTTTTTT GTGGCTATTT TTAATTGCTT TGGATTTGTT AAATGTTTTT TGTCTTCTGT 180  
 TAAGTGTGTT TTCTCTGGAG ATAGAATGTA AACCATATTA AAAGGAAAAA GTTTCAGACA 240  
 AGCAATTAAA 250

(2) INFORMATION FOR SEQ ID NO: 221:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 237
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00238

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 221:

GATCAGCTTT GCTCCTGAAA TTGCATCCGA AGAAGAAAGA AAGGGGATGG TGGCTGCGTG 60  
 GTCCAGAGG CTGCAGACCA TCTGGAAGGA AGAGCCCATC CCCTGCACAG CCCACTGGCA 120  
 CTTGGGGCAA TAACTCTGTG GCACGTGGGC ATCACGTAAG CAGCACACTA CGAGGCCAG 180  
 GCGCAGGCAA AGAGAAGATG GTGCTGTCAT GAAATAAAAT TACAACATAG CTACAAA 237

## (2) INFORMATION FOR SEQ ID NO: 222:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 243
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00239

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 222:

```
GATCAGTGTA GAACTGGTCA TAGAGGAAGA GCTAGAAATC CAGTAGCATG ATTTTAAAT 60
AACCTGTCCT TGTTTTIGAT GTTAAACAGT AAATGCCAGT AGTGACCAAG AACACAGTGA 120
TTATATACAC TATACTGGAG GGATTTTCATT TTTAATTCAT CTTTATGANG ATTTAGAACT 180
CATTCCTTGT GTTTAAAGGG AATGTTTAAT TGAGAAATAA ACATTTGTGT ACAAATGCT 240
AAA 243
```

## (2) INFORMATION FOR SEQ ID NO: 223:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 232
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00240

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 223:

```
GATCTAATAA CAGGTTGACA TAAGAAATAT TTGTCTCAAA AATCAATGTA TTAAATAGTT 60
GACAGTTACA AATCTCATCA TTGAAAGATT TAATTTTAGT TACCTTTTGT TGATTANNN 120
NNNATTGCAT TTGTATATTG CTAAGTATA AGACAAATTG AGTTATTGAG CTATTAANTG 180
CACATTTTAA TATAANTGCA GAAATCCCAA ATAAATGCT AACATACTGA AA 232
```

## (2) INFORMATION FOR SEQ ID NO: 224:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 237
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00241

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 224:

```
GATCACCGTG ACATCCGAGG TGCCTTTCTC CAAAAGGTAT TTGAAATATC TCACCAAAAA 60
ATATTTGAAG AAGAATAATC TACGTGACTG GTTGCGCGTA GTTGCTAACA GCAAAGAGAG 120
TTACGAATTA CGTTACTTCC AGATTAACCA GGACGAAGAA GAGGAGGAAG ACGAGGATTA 180
AATTTCAATTT ATCTGGAAAA TTTTGTATGA GTTCTTGAAT AAACTTGGG AACCAAA 237
```

## (2) INFORMATION FOR SEQ ID NO: 225:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 236
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single

(D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00242  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 225:  
 GATCTTCACT TAANCTAAGT CTGTGAATTA CTTTATATT ATTTTGAAAN ACTCCTTGCA 60  
 GTATATTGGC ATGATACAGT AAAAGCANTT TCCACAGATT GTTATCACCT TCTTTAAAAG 120  
 AAGTCAAAAT TTAAAAAATA CAATAGCACG TTGTTGGTGT CATATTCAAT AACATTTCCTA 180  
 ATGCTACATA TAATTTTATA GACATAATAA AGAAGGTATT GAAAAAACTA AATAAA 236

(2) INFORMATION FOR SEQ ID NO: 226:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 227  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00243  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 226:  
 GATCGCCACC TACCGCCGCC TGCTGGAAGA TGGCGAGGAC TTTAATCTTG GTGATGCCTT 60  
 GGACAGCAGC AACTCCATGC AAACCATCCA AAAGACCACC ACCCGCCGGA TAGTGGATGG 120  
 CAAAGTGGTG TCTGAGACCA ATGACACCAA AGTTCTGAGG CATTAAGCCA GCAGAAGCAG 180  
 GGTACCCTTT GGGGAGCAGG AGGCCAATAA AAAGTTCAGA GTTCAAA 227

(2) INFORMATION FOR SEQ ID NO: 227:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 205  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00244  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 227:  
 GATCAGCAAG CAGGAGTATG ACGAGTCCGG CCCCTCCATC GTCCACCGCA AATNCTTCTA 60  
 GGCGGACTAT GACTTAGTTG CGTTACACCC TTTCTTGACA AAACCTAACT TGCGCAGAAA 120  
 ACAAGATGAG ATTGGCATGG CTTTATTTGT TTTTGTGTT TTGTTTTGGT TTTTTTTTTT 180  
 TTTTGGGTT NNCCCCNGGT TTAAA 205

(2) INFORMATION FOR SEQ ID NO: 228:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 226  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00245  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 228:

```

GATCTGCCCC AAGAGGTGTT GGCTGAGCTT NAGGCCCTGG AGAGACGTGT GCACAAAATG 60
TNACCTGAGG CCCTAGTCTA GCAAGAGGAC ATAGCACCTT CATCTGGGAA TAGGGAAGGC 120
ACCTTGACAGA AAATATGAGC AATTTGATAT TAACTAACAT CTTCAATGTG CCATAGACCT 180
TCCCACAAAG ACTGTCCAAT AATAAGAGAT GCTTATCTAT TTTAAA 226

```

## (2) INFORMATION FOR SEQ ID NO: 229:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 228
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00246

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 229:

```

GATCAGCCCC AGATTTGACG TGCAACTCAA AGACCTGGAA AAATGGCAGA ATAATCTGCT 60
TCCATCCCGC CAGTTTGGTT TCATTGTACT GACAACCTCA GCTGGCATCA TGGACCATGA 120
AGAAGCAAGA CGAAAACACA CAGGAGGGAA AATCCTGGGA TTCTTTTCTT AGGGATGTAA 180
TACATATATT TNCAATAAAA ATGCCTCATG GACTCTGGTG CTTCCAAA 228

```

## (2) INFORMATION FOR SEQ ID NO: 230:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 308
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00247

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 230:

```

GATCTGCGAC CATTTCTGTA CAACACAAGC TGGCCTTGGC AGTTTCGGTG CATAGAAAAT 60
CAGGTGCTAC AGCTCGAGAG GGCAGAGCCA CAGTCCCTGG ACGGCGTGGA CTGAGGCCGG 120
TTCCTTCCTG GAGGCCTCCT GTCCTCGGGG ACCCCAGCAC CTCATCATCA GCATTGCTGG 180
AGCCAAGGGT AGGAGCCCTA CACTAGGAGC CCAGGATGGG ACGGNGNATN AGCCGAGAGG 240
NAGGGAACCT TTNAGTNAAG TTCCTCAAAA AGAGGNTTAG AATAAANCCT TNGGCTTAAA 300
AAGAGAAA 308

```

## (2) INFORMATION FOR SEQ ID NO: 231:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 230
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00248

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 231:

```

GATCCAAAGA CAGACCACAG ACTGGGAAAA GTTGAAGAT GAACACTTGA GGAATTCAGC 60
TTCTCACCTA CTTAGTACAG TTGGGAACCA TACACTTCTG GCATGTTTGG AAATCAAAAT 120
GTCACATTCT CGGGGGAGGA AGCCAGAAAA ATTGGGTATG TTCTAGAGAT TTACCACCAT 180
TGCTTATTGC TTTNCTCTT TAATAAAGTT TAGGAAAGTA GAATTTTAAA 230

```

## (2) INFORMATION FOR SEQ ID NO: 232:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 228
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00249

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 232:

```
GATCTAAAGA TTTCTCTATC CAATGAATCT AACAAAGTCA ATGGAAATTG AACTCTAGAA 60
TTGTCTCTAG AAAACATAGC TTCTTACTGA ACTTGAACAT TTTTACAACA TTCACTGGTT 120
TTTGTTTTGT TAGCTAATAA TCTATAATAG TTGAGTATCT CTGGGAATGG GGAGGGAAAT 180
TATATGTAAT AGAGCTTAAA AATAAAGTGT CAATTTCCAA GGNCTAAA 228
```

## (2) INFORMATION FOR SEQ ID NO: 233:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 221
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00250

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 233:

```
GATCAATAAG CATGTCAGAC TGATTAATGT CACTGTGAA AATTTGGTAG TAAATTTNCA 60
TTTGATATTA GATATAAATA TCTGAATATA AATAATTTNA ATATACTAGT CATGATGTGT 120
GTTGTATTTN AAAAATTATC TGCAACCTTA ATTCAGCTGA AGTNCTTTAT ATTTCAAAAG 180
AATGAATAAC ATTGATAATA AAATCGCTAC TTTAAGGGAA A 221
```

## (2) INFORMATION FOR SEQ ID NO: 234:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 219
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00251

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 234:

```
GATCTCTATG AATGTCAGAG CCCTAACTTT CAGGCTTTGC ATTTTGTATA TGGAAGAAA 60
TATGACAATC CTAGGTAATT AAACCATAGA CCCAAAGCCC TTACGTTTGA TGCAATTTAT 120
TTTTAAATA GGCCTTGTTT TTCAGCTTCA TCTGCAGTTC TATGTGAAGA TTGATAAATC 180
AGTTTTTACT TGTTTTATTA ATAAAACGTA ATTNAGGAA 219
```

## (2) INFORMATION FOR SEQ ID NO: 235:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 287
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single



(D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00252  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 235:  
 GATCTCCGTT CCGCTCCCAG CGGCTCCAGT GTAAATTCCC CTTCCCCCTG GGGAAATGCA 60  
 CTACCTTGTT TTGGGGGGTT TAGGGGTGTT TTTGTTTTTC AGTTGTTTTG TTTTTTTGTT 120  
 TTTTTTTTTN CCTTTGCCTT TTNCCCTTT NATTTGGNGG GAATGGGAGG AAGTGGGANC 180  
 AGGGAGGTGG GAGGTGGATT TTGTTNATTT TTTAAGCTCA TTTCCAGGGG TGGGANTTTT 240  
 TTTTNAANAT GNGNCATGAA NAAAGTTTGT TTTTGAAANT AACCAAA 287

(2) INFORMATION FOR SEQ ID NO: 236:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 222  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00253  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 236:  
 GATCAGAATT GGCAGCACAA AGAAAACGCC CTCTCCTGAC TTGTATTGTG GCAGTCTGAA 60  
 CGNCCCCAGA AAATTGTGCC AAAGAGTTTA GAAAAATAAA TATACAATAA AAGTAAACAC 120  
 ATACACACAA AACAGCAAAC TTCAGGTAAC TATTTTGGAT TGCAAACAGG ATAAATTAAA 180  
 GTTTCAAACA ATCTGATAAA ATAACCATTT GGGNCTTGNA AA 222

(2) INFORMATION FOR SEQ ID NO: 237:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 221  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00254  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 237:  
 GATCATCTTT CCTNTTCCAG AGAAGTGGGC TGGATGTCTC CATCTCTGTC TCAACTTTAC 60  
 GTGTACTGAG CTGCAACNTC TTA CTTCCTT ACTGAAAATA AGAATCTGAA TATAAATTTG 120  
 TTTTCTCAA TATTTGCTAT GAGAGGTTGA TGGATTAATT AAATAAGTCA ATTCCTGGAA 180  
 GTTGAGAGAG CAATAANGT CCTGAGAACC TTCCAGACAA A 221

(2) INFORMATION FOR SEQ ID NO: 238:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 217  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00255  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 238:

GATCAGACGT TTTACAAATN CATGAAGCGA ATTGCTGCTT GTAAGGAGCA GATTTTAAGG 60  
 TATTCCTGGA GTGGAGAGCC ACTCTTTTTA ACCTGCCCTA CATCAGANGT CACCGAGCTC 120  
 CCAGCCTGCA GCCAGTNTGG AGGCCAAAGG ATATTNNATT TTCANCTTAT GCCAGCNCTG 180  
 GTCAGCATGC TCAANAGTGC TANTTTAGGT CTTNCTN 217

## (2) INFORMATION FOR SEQ ID NO: 239:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 217  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00256

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 239:

GATCTCTCTG AGTCCTGGCA ACATCCAGCA AAACACTGCTC TTATTCTCCA AAGAATATTG 60  
 GGAGCTCTCA ATCCTCGGTG ATATGGGAAA GAGAACTGAG TATTTGCCCT ATGACTGAGC 120  
 TTTCTATAGG AATTTTATTA AAGAATGTTT AATTNGTTG TCCTNCTNAA TGTTCCTCAGT 180  
 CAAATAAATG AGTGAGCTGG TTTCGGCTGC TCTTGGN 217

## (2) INFORMATION FOR SEQ ID NO: 240:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 216  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00257

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 240:

GATCCCATGG ACATTGTTGGG AAAGGGCTCC TTGGGCTGCT GGTGAACCTC TGTGGCCACC 60  
 ACCTCCTGCT CCTGACCTCC CTGGGAGGTG CTATCAGTCT GTCCTGGCCT TTCAGTTTTC 120  
 TAAGTNGNTT CCAGCCCCAG TGTCCTGACT TCTNCTGCAN AATAGGAGGG AGGCCTCCTT 180  
 TTNGGANGGN NGTACTTTGG GNGATAGTGN GGCCTN 216

## (2) INFORMATION FOR SEQ ID NO: 241:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 220  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00258

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 241:

GATCTTTTAA GTTTCCTTCC CTACCCAGTC CCCATTTTCT GGTAAGGTTT CTAGGAGGTC 60  
 TGTTAGGTGT ACATCCTGCA GCTTATTGGC TTAAATGTA CTCTCCTTTT ATNTGGTCTC 120  
 TTTGGGGCCG ATTNNGNGAA AGCGAAATCA NTAGTGCAAC TGTTTTGATA CTGAATATTG 180  
 ACAAGTGTCT NTTTNAATA AAGACCCANT CCCTTCCAA 220

## (2) INFORMATION FOR SEQ ID NO: 242:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 223
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00259

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 242:

```
GATCACTAAT CAATAATCTG ATATTTAACA AAATATGGAC AGGCCACTTA TGCTCAGTTT 60
TACCTTAGTT ATTCCTTGGT ATCCACAGGC CCAAGTCCCT TTAAATAAAA TACCCTCATA 120
TTTCCATATA ATCTACATAC ATTCTCCCAT ATACTTTAAA TCATCTCTAG ATTACTNATA 180
ATGTCTAATN CAAAATAAAT GCTATGTAAA TGTAATTATT AAA 223
```

## (2) INFORMATION FOR SEQ ID NO: 243:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 216
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00260

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 243:

```
GATCAACTTA ATTCCTTTTC TTTATCTTCC NTCCCTCACT TCCCTTTTCT CCCACCCTCT 60
TTTCCAAGCT GTTTCGCTTT GCAATATATT ACTGNNTAAT NAGTTGCAGG ATAATGCAGT 120
CATAACTTGT TTTCTCCNAA GTATTTGAGT TCAAAACGCC NGTATCTAAA GAAATACGGT 180
TGGGGTCATT AATAAAGAAA ATCTTTCTAT CTTAAA 216
```

## (2) INFORMATION FOR SEQ ID NO: 244:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 212
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00261

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 244:

```
GATCTCAGAA CAATCAGATG CAAAGCTGAA AGAGATTGTA ACAAATTTCT NTGGCTGGAT 60
TTGAAGCTTA AACTCCTGTG GATTCACATC ANATACCAGT TCAGTTTTGT CATTGTTCTA 120
GTAAATTAGT TCCATTTGTA AAAGGGTTAC TCTCATACTC CTTATGTACA GAAATCACAT 180
GAAAAATAAA GGTTCATAA TGCATAGTTA AA 212
```

## (2) INFORMATION FOR SEQ ID NO: 245:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 221
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00262

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 245:

GATCCATCTG CCTTTGTGGC TGCTGCCCCCT GTGGCTGCTG CCACCAACAG CTGCTCCTGC 60  
 TGCTGCTGCA GCCCAGCTAA GGTTGAAGCC AAGAAAGAGT CGGAGGAGTC GGACGAGGAT 120  
 ATGGGATTTG GTCTCTTTGA CTAATCACCA AAAAGCAACC AACTTAGCCA GTTTTATTTG 180  
 CAAAACAAGG AAATAAAGGC TTAATTCTTT AAAAAGTCAA A 221

## (2) INFORMATION FOR SEQ ID NO: 246:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 214  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00263

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 246:

GATCCCATTTG GAAGGAATGC TCTACCTCAC AGAACTCTGA ACCCTACAGA AATATGGGCC 60  
 TGCTGCCATT TCCTGAAGAC CGGGGCATCG GGGTGGGGTG ATAAAGGATA CAACCTGCAC 120  
 AGGGGGAAGT TATTAAAGAG GCTGCAAAGT CCAGCCACCC TGAAGATACT CCCCAGTGCT 180  
 CCCCTCCTGC TAAAGAACCA GTTACCCCGAG GAAA 214

## (2) INFORMATION FOR SEQ ID NO: 247:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 208  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00264

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 247:

GATCCTCAAC TATTGGAAT NATGGACTGG TGGCCCTGGT ACAGAACCAT GACTGGCTGC 60  
 TGAATTCTGA AAACCAGGAC TTGGTTCAAC ATTTAAATTT GATAGTTGCC CTGATTCCCA 120  
 TTTTGGGTTT GTGAAAAGTG TATGTATTTA AATTTGCTGT AAAACATAAT CACTAATAAT 180  
 ATGCAATAAA TATTCCTTG AAGGGAAA 208

## (2) INFORMATION FOR SEQ ID NO: 248:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 208  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00265

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 248:

GATCTGTGGG AGGAATGGCA AGAGAAGCAA CCGGACCCTG AGAGAAGAGT GTTAAGGAAC 60

CTGCGCATGT GGTTAGCTTG ACCTTTCTGT TGGGCATGAC ATGGGGTTTT GCATTCTTTG 120  
 CCTGGGGACC NTTAAATATC CCCTTCATGT ACCTCTTCTC CATCTTCCAN TTCATTACAA 180  
 GGTAAGATAA ATTGTACATG AATAGTCN 208

(2) INFORMATION FOR SEQ ID NO: 249:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 201
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00266

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 249:

GATCAAATAT CACTAAATAC TTAAATTGT TTTACTTAAG AGTCTAATCT GGGAAGTTTT 60  
 CAAATCATAC TATTAATGTG TAATCTAAGC TCTTCAGATG TATCCATGAA TAATCCTGGA 120  
 ACAATATTGC TTGTATTCTT GTCATAGAAC AGGTTTTGTA ATCTTTAAAA GAAATGAAAA 180  
 TTTATATAAT AAAGTTTCAA A 201

(2) INFORMATION FOR SEQ ID NO: 250:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 211
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00267

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 250:

GATCACCTTG GTGTTCTTG TTTGGAAGAT TATTTCTCT GAATTTCTGG GCTTGGTCTT 60  
 CCAGTTGGCA TTTGCCTGAA GTTGTATTGA AACAATTTAN TGAAAATATT AAATATTTGG 120  
 TTTCAAAAGG CAGATTTATC TTCTCCCAAC ATTCTGTTAT TTCTGATACT TTTGAAAAAC 180  
 TAATAAAAAT TAATAAAGA CATGAACATA 211

(2) INFORMATION FOR SEQ ID NO: 251:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 208
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00268

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 251:

GATCCAAGAA AACGCCTCAC TGCCTTAACC TTAAGTGTTC TTCCTGGCGC TAAAAAGAGC 60  
 TGTATTTTTT AAAGTGCTGG GGCAAACAAA GNANCCCCAA AAGAGTTGAT GTGTGTTTTA 120  
 AAAGNAAAAA CCAATGAGG AACAATTGGA GATTTTTATG CAGAAACTAA ATAATCCTTA 180  
 ATAAATAAAT CTCTATTTTG GAATCAAA 208

(2) INFORMATION FOR SEQ ID NO: 252:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 205  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00269  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 252:  
 GATCTTCTAA AAAAGGAACA GAAAATGGTG TGAATGGAAC ATTAACNCA AATGTAGCAG 60  
 ACTCTCCCGG GAATAAAAAA GAGAAATCTT CATAATGAAT TATAANCTAA TTGATTAATG 120  
 TCCCCAAAGA AATCTGCTTT CTACTATATC TTTCAGCATT AGAGATTTTC CTGTTCTNGA 180  
 AAATNCAGTC TGTGCTCTTT GATTN 205

(2) INFORMATION FOR SEQ ID NO: 253:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 212  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00270  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 253:  
 GATCTAGGCA AAGAAGAATA CAAATNAAAC CCCNTTCTTT CTCGTTTCCN GTCCAACAAC 60  
 TCTGTAGAGC TCTCTGCACC CGTTACCCCT TTCCACCTTT TGTATTTAAT TTTAAAGTCA 120  
 NGTGTACNTG CAAGGAATGC TGGATGCAAG ATAGATACTA TATTAACTG TACTGTTATT 180  
 TAAGATGTAA TAAAGCAGTT TGACATGAGA AA 212

(2) INFORMATION FOR SEQ ID NO: 254:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 209  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00271  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 254:  
 GATCTAAGAT GATTATTTTG TAAAAGACTT TCTAGTGTAC AAGACACCAT TGTGTCCAAC 60  
 TGTATATAGC TGCCAATTAG TTTTCTTTGT TTTTACTTTG TCCTTTGCTA TCTGTGTTAT 120  
 GACTCAATGT GGATTTGTTT ATACACATTT TATTTGTATC ATTTTCATGTT AAACCTCAAA 180  
 TAAATGCTTC CTTATGTGAA AAAAACAAA 209

(2) INFORMATION FOR SEQ ID NO: 255:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 197  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00272

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 255:  
 GATCTGCCAG CAGTGTTCTT GCAATATGAG GAAGACAGTT ACAGCCACAT TATGGCTCTC 60  
 ATTGAACAGT ACGCAGCACC CTTGCCCCCA GCCGTCTTTC TGGGGCTTGC GCGCAAAATC 120  
 TACAAGCGGA GAAAGTGACC TAGAGATTGC AAGGGCGGGG AGAGGAGGCT CTCAATAAAT 180  
 AATCGTGTA CCTTAAA 197

(2) INFORMATION FOR SEQ ID NO: 256:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 196  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00273

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 256:  
 GATCTATCAC CTGTAATCAT AACTGGCTTC TGCTTGTAAT CCACACAACA CCAGGACTTA 60  
 AGACAAATGG GACTNATGTC ATCTTGAGCT CTTCAATTTAT NTTAACTGTA ATTTATTTGG 120  
 AGTGGAGGCA TTGTTTTNAA GAAAAACATG TCATGTAGGT TGTCTAAAAA TAAATGCAT 180  
 TTAAACTCAT TTGAAA 196

(2) INFORMATION FOR SEQ ID NO: 257:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 196  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00274

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 257:  
 GATCTCACCA GGAGAAATGA ATATGTGAGG TGATGGATGT AACTAGCTTG ATTGTGGTAA 60  
 TCAATTTTCG AATGTGTACA TATATCAAAA CATCACATTG TACAAAATAC ATACAGTTTT 120  
 TGTCAATTTA AAGATATCAG AATTCTAGAA TATGATAAAG TTGTGTTTTTC AAGCAAGTAA 180  
 AGATAGNTTA CTTAAA 196

(2) INFORMATION FOR SEQ ID NO: 258:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 197  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00275

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 258:  
 GATCAGATTT TNCATTTTTN AATGTTCCGT GTTTTCTTAA GTAGCATGTA TGACATTTAT 60  
 AATNTTAAAA AATNTTTTAA AATATGTGTA TGATACATAT TTTCNATTGT CTTAGGGCAG 120  
 GCTTTTGAAA ATNTCAGCCT GTAGCCAAAT GCAAGATTTT CTCCATCCTT TAATAAAAAG 180

CACACTGAGA AATCCTN

197

## (2) INFORMATION FOR SEQ ID NO: 259:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 199
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00276

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 259:

```
GATCTCTGTC TTGAGTTTCT CTTTCCCAT CAGCTGAAGC ACTCTTCAGA GACTACGTCC 60
ACAGACACTG ATGCTGAGGC CTCCCTGGAG GAAGGAGGGT TAGGGGTGCC TATCCTCAAG 120
TATTGGAAGA GCAGAATTGA GGGAGAGACC TTTCTTCCTT GTTGAGGGTG AAAAATAAAT 180
ANGAATTACA TGTCTTAAA 199
```

## (2) INFORMATION FOR SEQ ID NO: 260:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 197
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00277

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 260:

```
GATCAAGAAG GCTGGAACGG AACTGGTTAA CTTCTTGAGC TATTTCTGTGG AACTTGGAAC 60
ACAGCCTGCC ACCCAGTGAA GTGTCCAGAC CATTGTCTTC CAACCCAGC TGGCCTCTAG 120
AACACCCACT GGCCAGTCCT AGAGCTCCTG TCCCTACCCA CTCTTTGCTA CAATAAATGC 180
TGAATGAATC CNNNAAA 197
```

## (2) INFORMATION FOR SEQ ID NO: 261:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 195
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00278

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 261:

```
GATCTGAGTC AGTCGGAATT TGTGAAACAG GGTAGCAAAC AAGATATTTT ACTTCCATGT 60
ATACAATAAT TTTTTTAAAN NNTGCAATTT GCGTTGCAGC AATCAGTGTT AAATCATTTG 120
CATAAGATTT AACAGCATTT TTTATAATGA ATGTAAACAT TTAACTTAA TGGTACTTAA 180
AATAATTTAA AAGGN 195
```

## (2) INFORMATION FOR SEQ ID NO: 262:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 193
- (B) TYPE: nucleic acid



(C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00279  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 262:  
 GATCTAGTGT AATGGAAGAC CTTTGAGAAC CTGGGTGTAT TAACTTTGTG TATATAGTGT 60  
 AAATATCCCC ACTGTACTGT TAGAGGCCAA CAATTCTAGT ATGGCTTGTT GGCAAAGAGT 120  
 GCTACACCGT TTCAATGAAA CAATGTATGT TTGTTTAAAC TGAAGTAAAA TAAATACATG 180  
 CTTAATCCTG AAA 193

(2) INFORMATION FOR SEQ ID NO: 263:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 196  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00280  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 263:  
 GATCCCTGGG ACCAACCGCA TCCTCAGCTT CTTCCCCGAG AAATGCTGGA GCAGGCTGTT 60  
 CAGACCGACG TTGCCATCAA AACACATACA CCCAGAAAGA AACAACAGAA ACCAAAACTC 120  
 ACAAGGCGCA TGATTACTTG TTTTATATTT CATGTTGGGT TTTCCCTCCC ACTATTAAAC 180  
 AGTCTGTTTC CGTAAA 196

(2) INFORMATION FOR SEQ ID NO: 264:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 192  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00281  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 264:  
 GATCTGTTAA AAAAGAAATC TGTTTCAACA GATGACCGTG TACAATACCG TGTGGTGAAA 60  
 ATGAATTCAG ACTTATTAAA TGATGAACCT GTTAAATCTN CTCAGTGTCT ATTTATCAGC 120  
 ACAATACACA CAGGAGANCT GTTGATGGCA TATTGAATAG ATTTNCCTGA ATAANTTGCT 180  
 CTGGAAACCA AA 192

(2) INFORMATION FOR SEQ ID NO: 265:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 189  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00282  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 265:

GATCCTCGTC TTACAGCGAA TGGTTTCAAG ATAAAATTGA TACCAGGAGT TTCAATTACT 60  
 GAAAATTACT TGGAAATAGA AGGAATGGCT AATTGTNTCC CATTCTATGG AGTAGCAGAT 120  
 TTAAAAGAAA TNCTTAATGC TATATTAANC AGAAATGCAA AGGNNGTTA TGANTGTNGA 180  
 CCTCGCANN 189

## (2) INFORMATION FOR SEQ ID NO: 266:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 188  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00283

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 266:

GATCTTTTGT ACTTTAGGAC ATTAAATTGT ACAACTTTTG TATATATAAA AGCTTAGGAA 60  
 CTTTCTGTTT AGCAGGAAGG CAACACATTC CTACACTTTT AATGTATATG TTTGTTATAA 120  
 TGTCCATGTA AACATGCCCT ATGTTTGTGC CTTTAAATTA GTTTGTCTCA ATAAACAAAA 180  
 TGTAGAGN 188

## (2) INFORMATION FOR SEQ ID NO: 267:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 206  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00284

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 267:

GATCCTGAGA ACTTGGAATT CTTGTAACT GGAGCTCGGA GCTGCACCGA GGGCAACCAG 60  
 GACAGCTGTG TGTGCAGACC TCATGTGTTG GGTCTCTCC CCTCCTTCCT GTTCCTCTTA 120  
 TATACCAGTT TATCCCCATT CTTTTTTTTT TCTTACTCCA AAATAAATCA NGGCTGCAAT 180  
 GCAGCTGGTG CTGTTTCAGAT TCTAAA 206

## (2) INFORMATION FOR SEQ ID NO: 268:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 190  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00285

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 268:

GATCAGAAAA AGAAAGAAGC CAAAGAGAAA GGTACCTGGG TTCAACTAAA GCGCCANCGT 60  
 GCTCCACCCA GAGAAGCACA CTTTGTGAGA ACCAATGGGA AGGAGCCTGA GCTGCTGGAA 120  
 CCTATTCCCT ATGAATTCAT GGCATAATAG GTGTTAAAAA AAAAAANTAAA GGGCCCTCTG 180  
 GGGCTACAAA 190

## (2) INFORMATION FOR SEQ ID NO: 269:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 189
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00286

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 269:

```
GATCAAGATA TTAATATNTC GGATTTATCT TTCCCATAT CCAAGTACCA ATNCTGTTGT 60
AAACAACGTG TATAGTGCCT AAAATTGTAT GAAAATCCTT TTAACCATT TAACTTAGAT 120
GTTTAACAAA TCTAATCTCT TATTCTAATA AATATACTAT GAAATAAAAA AAANNNGTTG 180
AAAGCTAAA 189
```

## (2) INFORMATION FOR SEQ ID NO: 270:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 189
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00287

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 270:

```
GATCTTGTGT ATTGAGCTTA TTGTTGAAAG GGATTTTTGA AGGACAGAAC AATTACTGCA 60
TGATGAATCT TCCTNTCTCT GCCTTCTGAG CACCGNCTTT AATTTCCATA TCTTCAAGTC 120
TTGAAGAAGT TGATGTTAAT TGAAGAATTC ACTTGTCTGG TTGAAATAAA GCCTGTTTCT 180
GTTGTGAAA 189
```

## (2) INFORMATION FOR SEQ ID NO: 271:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 186
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00288

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 271:

```
GATCTGATTT GCTAGTTCTT CCTGTGAGA GTTATAAACT GAGAGTGACG TCACTTCAGC 60
CAGAACATAT TCTCCATACT CTGCATATAA TTTGTGGCTG CAGAATATTG TAATTTGTTG 120
CACACTATGT AACAAAACAA CTGAAGATAT GTTAAATAAA TATTGTACTT ATTGGAAGTA 180
ATATCN 186
```

## (2) INFORMATION FOR SEQ ID NO: 272:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 185
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00289  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 272:  
 GATCTAAAAT GTCAGCATCA TGCAAAGTGC ACGATATATA GTGAATTTNG CTCTAAAAGA 60  
 GCATGAACAA GTCTTTCTAA TGTTTTGTAC AGTGCCTGGC ACTCTGTGGG TGCTCAATAA 120  
 ATGGATAGGA GTTTTCATTT GAAGGATATT TGAATTTTAA AAATAAAGTG TTTTATTCCC 180  
 NTAAA 185

(2) INFORMATION FOR SEQ ID NO: 273:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 184  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00290  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 273:  
 GATCTGGTCA CTGTGGTTCC TGCATGAAGA CAGTGGCTGG CGGTGCCTGG ACGTACAATA 60  
 CCACTTCCGC TGTCACGGTA AAGTCCGCCA TCAGAAGACT GAAGGAGTTG AAAGACCAGT 120  
 AGACGCTCCT CTACTCTTTG AGACATCACT GGCCTATAAT AAATGGGTTA ATTTATGTAA 180  
 CAAA 184

(2) INFORMATION FOR SEQ ID NO: 274:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 185  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00291  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 274:  
 GATCTGATTT GCTAGTTCTT CTTGTAGAG TTATAAATGG AAANATTACA CTATCTGATT 60  
 AATAGTTTCT TNATACTCTG CATATAATTT NTGGCTGCAG AATATTGTAA TTTGTTGCAC 120  
 ACTATGTAAC AAAACAACCTG AAGATATGTT TAATNNATAT TGTACTTATT GGAAGTAATA 180  
 TCAAA 185

(2) INFORMATION FOR SEQ ID NO: 275:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 188  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00292  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 275:  
 GATCAAAGAC ATCCTCATCC AGTATGACCG GACCCTGCTG GTAGCTGACC CTCGTCGCTG 60

CGAGTCCAAA AAGTTTGGAG GCCCTGGTGC CCGCGCTCGC TACCAGAAAT CCTACCGATA 120  
 AGCCCATCGT GACTCAAAAC TCACTTGTAT AATAAACAGT TTTTGAGGGA TTTTAAAGTT 180  
 TCAAGAAA 188

(2) INFORMATION FOR SEQ ID NO: 276:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 182  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00293

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 276:

GATCGGGNTA CTACAAAGTT CTGGGAAAGG GAAAGCTCCC AAAGCAGCCT NGTCATCGTG 60  
 AAGGCCAAAT NCTTCAGCAG AAGAGCTGAG GAGAAGATTA AGAGTGTG GGGGGCCTGT 120  
 NTCCTGGTGG CTTGAAGCCA CATGGAGGGN GTTTCATTAA ATGCTAACTA CTTTNCCTA 180  
 AA 182

(2) INFORMATION FOR SEQ ID NO: 277:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 195  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00294

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 277:

GATCCAGCCA GAGGATGCCA CGCCAGCCCA GCGCTACCAG GCTGCCCAAG GGGGGCGGGC 60  
 CTGGGAAGAG CCCTACACGG GGCAGCACCT AGGATGGGGC AGAGACTTGT TGCATCTTTG 120  
 TCCCCAGCAA AGGCTACATG TTACCTCCTT CAATTGATAA TAAACCTTTC TGAGATGCAG 180  
 AGGGTCCAGG TCAAA 195

(2) INFORMATION FOR SEQ ID NO: 278:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 327  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00295

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 278:

GATCCCATTA ACTCGATGCT GAGTATCTAC ATGGATACAT TAAATATATT TATGCGAGTT 60  
 GCAACTATGC TGGCAACTGG AGGCAACAGA AAGAAATNAA GTGACTCAGC TTCTGGCTTC 120  
 TCTGCTACAT CAAATATCTT GTTTAATGGG GCAGATATGC ATTAAATAGT TTGTACAAGC 180  
 AGCTTTCGTT GAAGTTTGA AGATAAGAAA CATGTCATCA TATTTAAATG TTCCGGTAAT 240  
 GTGATGCCTC AGNTCTGCCT TTTTCTCTGG AGAATAAATG CAGTAATCCT CTCCCAAAA 300  
 AAAAAAAAAA NNNTNNNTNN NNNTNNN 327

## (2) INFORMATION FOR SEQ ID NO: 279:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 183
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00296

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 279:

```
GATCCAAATC CTCATCTTAC TTTCCCGACC TTAAGGATGT AGCTGCTGCT TGTCCCTGTTC 60
AAGTTGCTGG AGCAGGGGTC ATGTGAGGCC AGGCCTGTAG CTCCTACCTG GGGCCTATTT 120
CTACTTTTCAT TTTGTATTTT TGGTCTGTGA AAATGATTGA ATAAAGGGAA CTGACTTTGG 180
AAA 183
```

## (2) INFORMATION FOR SEQ ID NO: 280:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 180
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00297

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 280:

```
GATCAAAGTG GCTGCAGCAG AGTTAGCTGT CTAGCGCCTA GCAAGGTGCC TTTGTACCTC 60
AGGTGTTTTA GGTGTGAGAT GTTTCAGTGA ACCAAAGTTC TGATACCTTG TTTACATGTT 120
TGTTTTTATG GCATTTCTAT CTATTGTGGC TTTACCAAAA AATAAAATGT CCCTACCAGN 180
```

## (2) INFORMATION FOR SEQ ID NO: 281:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 180
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00298

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 281:

```
GATCACATGA TTTTGTCTCT CAGTTCTATT AATGTTCTTG GATTCTGTTC AATGTTCTGT 60
TCACATTGCA GAAAAAGCAT TTGACAAAAT AATTTTCAGTA GCTGCTGAAA AAGCATTTGA 120
TAAAATTTCAG CATACCTTTA TGATACAAAA AACCTTCAAT AAAGTGGGTA TATATGNACN 180
```

## (2) INFORMATION FOR SEQ ID NO: 282:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 178
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00299

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 282:

GATCTTGAAT TATTTATAAA CTGGAAAAGTG GTTTGATTAT TGTGAGTCAA AACTCTAAGT 60  
 GGTAAAAAAT TAGTATGAAT TTTTGTAGCTT CTTAATGAAT ATGGATTAA AACTCTCCAG 120  
 TTCTTATTTT ATGAAATGAC TTGCCTTTCT GGTAATACAA TGCTGATTTT TTAGTAAA 178

## (2) INFORMATION FOR SEQ ID NO: 283:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 182  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00300

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 283:

GATCCCAAAT ATGAAGTCAT CGAAAAACCC CAGGCCTGAA GAAATAAAGT AAAAATNAAT 60  
 CTGGTAATTT GTCACGGATT AGTTGTACAA CTAGTTAGAA GTTTCAGAAT AAACATGCAT 120  
 TTCATAACTG TCAAATGTTT TTTTAATTCT GAGTCCAAAT AAATTATTG GTGATGTTGA 180  
 AA 182

## (2) INFORMATION FOR SEQ ID NO: 284:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 179  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00301

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 284:

GATCTCTGAG TGAGAGGGAA ANAGGTCAGA TTTATACAAC TGAGCGCCAG AGGGGAAAAT 60  
 GCACCTTGTT GGAGTGAGAA ATGTTCTGAA ACTGAATTAC TTCTTGATACA GCTGAGATAG 120  
 CTTCTTCTGA ACTATTATTA AATAAGTGAA TACAAAGGCC CTATGATGGG AAATCCAGN 179

## (2) INFORMATION FOR SEQ ID NO: 285:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 201  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00302

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 285:

GATCACCTGT TTGAAACCAT CTCCCAAGCC ATGCTGAATG CTGTGGACCG GGATGCAGTN 60  
 TCAGGCATGG GAGTCATTGT CCACATCATC GAGAAGGACA AAATCACCAC CAGGACACTG 120  
 AAGGCCCGAA TGGACTAACC CTGTTCCAG AGNCCACTTT TTTTCTNTT TTTGANATAA 180  
 AATAGCCTGT CTTTCAANAA A 201

## (2) INFORMATION FOR SEQ ID NO: 286:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 176
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00303

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 286:

```
GATCGGAGAT GCTTTGTAAT CTACTGTCCA GCTGGAAACA GCTCATGTTA CGCGGAAAAA 60
ACTACAAGTA ATGTTCAAAT CTATTTTGGG TCATTTTAT GTACCTTTGG GTTCAGGCAT 120
TATTTGGGGG GTTTTGTTC CAAAGGAAC AAATAAAGTC ATATTGCTTA TAGAAA 176
```

## (2) INFORMATION FOR SEQ ID NO: 287:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 176
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00304

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 287:

```
GATCTTTGCT GGGAAACAGC TGTGAAGATG GACGCACCCT GTCTGACTAC AACATCCAGA 60
AAGAGTCCAC TCTGCACTTG GTCCTGCGCT TGAGGGGGGG TGTCTAAGTT TCCCCTTTTA 120
AGGTTTCAAC AAATTCATT GCACTTTCCT TTCAATAAAG TTGTTGCATT CCCAAA 176
```

## (2) INFORMATION FOR SEQ ID NO: 288:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 176
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00305

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 288:

```
GATCCGCAAG ACCAAGTACC GCCCGACCT GCGCATGGCA GCCATCCGCA GGCCAGCNTC 60
ATCCTGCGCA NCAGAAAGCCT GTAATNGTGA AGAGGAAGCG GACCCGACCC ACCAAGAGCT 120
CCTGAGCCCC CTGCCCCCAG AGCAATAAAG TCAGCTGGCT TTCTNACCTG AAGAAA 176
```

## (2) INFORMATION FOR SEQ ID NO: 289:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 175
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00306

## (ix) FEATURE:



(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 289:

```
GATCTCAAAA CACAGTGAGA GGTCTGAAGG CTGGCTTCTG AAGAATCCCT GATGTCTTAT 60
TGGAACAACC ACTGAGCTAC GGAGAGCTCT GCTGTGATGG GCTAGGCACT TTATATCTGT 120
GTGAATACAG ATTTATAAAA CAGGTTAATA AACTTATCCA AGGTCACATT TCAAA 175
```

(2) INFORMATION FOR SEQ ID NO: 290:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 165  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00307

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 290:

```
GATCTGAATT CTTTATGTAT ATTTGTAGCT ATATTTTATA CAAAGTGCTT TAAGTGTGGA 60
GAGTCAATTA AACACCTTTA CTCTTAGAAA TACGGATTTCG GCAGCCTTCA GTGAATATTG 120
GTTTCTCTTT GGTATGTCAA TAAAAGTTTA TCCGTATGTC AGAAA 165
```

(2) INFORMATION FOR SEQ ID NO: 291:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 186  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00308

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 291:

```
GATCATTCCT TCTGTAGCTC AGGAGAGCAC CCCTCCACCC CATTGCTCG CAGTATCCTA 60
GAATCTTTGT GCTCTCGCTG CAGTTCCTT TGGGTTCCAT GTTTTCCTTG TTCCCTNCCA 120
TGCCTAGCTG GNTTGCAGAG TTAAGTTTAT GATTATGAAA TAAAAAATA ACTGACAATT 180
NTCAAA 186
```

(2) INFORMATION FOR SEQ ID NO: 292:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 175  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00309

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 292:

```
GATCTTGTAG AAAATTTTGA TGAGGCATCA AAGAATGAAG CTAATAAAA GTTTGGTTTT 60
TGGAAGCTGG CATGGACTAG ATTTAACAAA TCAGCTATGT GGTCCAAAG TTTTACAGAC 120
ATGGAGAACA TCACCTGTTA CTAGTTCAGT AATATAAATA TTTTGTATAT TAATN 175
```

(2) INFORMATION FOR SEQ ID NO: 293:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 406  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00310  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 293:  
 GATCAGATTA CCAGGAACAT CAGGAGTGGG TTCCTGCCCC AACCAAACCG CATTCGTGTG 60  
 GATTTTTTTT TTCAACTTAA TTGGCTATTC CAAAGATTTT TTTTTCCTA TTTTGACGA 120  
 TTGGNGCCCT TAAGATGCAC GATGGAATTG TGTTTTNCGT TTTTNGGTAA AAGGAGCAAA 180  
 GCGNGGNCCT GGAGATAAAC GCTGGAGCAA TCTCCTTGA AGGATTCAGC ACGAGTAGAT 240  
 GGTAACATT TAAAGGGGAA AGGGGGGTTT GTTTAAATA GTAAATCAGT AAGTCACTTC 300  
 TAAATTTAAA GAAACCAAAA TTGGGAGTTG AAGAATAAGT AGGGTTTCCA ATTGGGCTAT 360  
 TGCCGNTTTN CTTTGNAAAA ATTAAACCAT TTTTAAAAA CCTAAA 406

(2) INFORMATION FOR SEQ ID NO: 294:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 218  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00311  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 294:  
 GATCCCATAG ACCAGAGCCC ACCTTTTNNNA TAACTTAGT AAAGTCTTNG AGACTAGAAG 60  
 CAAGATAGTT TGTGACACAT AAGCTTCCCA AAACTNGAA TAGATTTTNA CTGAATAGTG 120  
 GTCTATCTGA TGGTATATGT TTCTTAAAGG TCCAANTGTA ATAAAAAANA 180  
 GGTCTCAGTG TTTTNAATGC ACTNCATATT TGTNTGCN 218

(2) INFORMATION FOR SEQ ID NO: 295:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 176  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00312  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 295:  
 GATCCACCAA GCACGCCTAT NAATACAAAG TAACTATNA TTTTNATTGT GAAATTTTCA 60  
 TAGATGGAAA ATTGAATATN CTGTCCATTT CATTTTACAA TNATCTTACC ACTTATTTTT 120  
 GTACCATGTA TTTCAATTGC CTGTTTAGTG AAAAATAAAA ATTAAAAAAA CCTAAA 176

(2) INFORMATION FOR SEQ ID NO: 296:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 172  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00313

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 296:

GATCCCAGCA AGATAATGTC CTGTCTTCTA AGATGTGCAT CAAGCCTGGT ACATACTGAA 60  
 AACCCTATAA GGTCTGGAT AATTTTTGTT TGATTATTCA TTGAAGAAAC ATTTATTTTC 120  
 CAATTGTGTG AAGTTTTTGA CTGTTAATAA AAGAATCTGT CAACCATCTA AA 172

## (2) INFORMATION FOR SEQ ID NO: 297:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 173  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00314

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 297:

GATCGGTGAC ATCGTCAAGA TGGGCGAGTG CCGGCCTCTG AGCAAGACAG TCGGCTTCAA 60  
 CGTGCTCAAG GTCACCAAGG CTGCCGGCAC CAAGAAGCAG TTCCAGAAGT TCTGAGGCTG 120  
 GACATCGGCC CGCTCCCCAC AATGAAATAA AGTTATTTTC TCATTCCCAG AAA 173

## (2) INFORMATION FOR SEQ ID NO: 298:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 167  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00315

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 298:

GATCGTTTCC AGATGAGAAT TCACAAGCGA CTCATTGACT TGCACAGTCC TTCTGAGATN 60  
 TGTTAAGCAG ATTACTTCCA TCAGTATTGA GCCAGGAGTT GAGGTGGAAG TCACCATTGC 120  
 AGATGCTTAA GTCAACTATT TTAATAAATT GATGACCAGT TGTTAAA 167

## (2) INFORMATION FOR SEQ ID NO: 299:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 171  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00316

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 299:

GATCTGGTGG TGGAAGTGGT GGATATGGTA GCAGAAGGTT CTA AAAACAG CAGAAAAGGG 60  
 TTGAATGAGA ACCCTACTTG CCTAAATNAG GAATGTCTTT CCTACCATCT AAAATACGAA 120  
 GGTTTCTGGC TGGGTAAGGT TTGTAGTTGA CAGTAAACC TGATGACACC N 171

## (2) INFORMATION FOR SEQ ID NO: 300:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 176
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00317

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 300:

```
GATCCGAGTG TGATTTGAAT TCTGTGATAT TTTCACACTG GTAAATGTGA CCTCTATTTT 60
ACTTACTGCT ATAAATAGGT TTATATTATT GATTCACCTA CTGACTTTGC ATTTTCGTTT 120
TTAAAAGGAT GTATAAATTT TTACCTGTTT AAATAAAATT TAATTTCAAA TGTAAG 176
```

## (2) INFORMATION FOR SEQ ID NO: 301:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 169
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00320

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 301:

```
GATCTTTGTT TTGTGTTTAA CCATAATGGT TGTGTACTGA ACCACTTCAT ATTTGTAATA 60
TATAATATAT ATATATNNGN TNCCCTNAAG ACTCAGCCTC CTGGTTTACC CCCCCGGCCT 120
GGGCATCTNA CCTCCCCCAC CCCAGTGTGA TTTAACATCC NGGNACTGN 169
```

## (2) INFORMATION FOR SEQ ID NO: 302:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 174
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00322

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 302:

```
GATCTAGCTC TGAATGTATG TTTCCTGACG TTTTACATTT CCACTTTCCT ATTCCATTCA 60
TTAAGCTAGC CAACAATCCA CCATCCTTTA AAGATTGTTT TCATAACTGA ACAAAAACCA 120
CATAATCTAA ATAGAGCAAA GCTACAAGAA ATAAATTTAT TTAAACGCAA GAAA 174
```

## (2) INFORMATION FOR SEQ ID NO: 303:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 177
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00323

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 303:

```
GATCCTAGCA TATGTTAAAA TTCAAATTAA TGTA AACAG ATTAACAACA ACAAAGAAAC 60
TGTCTATTTG AGTGAAGTCA TGCTTTCTAT TATAATAACT TGGCTTCGGT TATCCATCAA 120
ATGCACACNN ATACTGTTAT CTGATTGTTT ATAATAAGA ATACTGTACC TNNTAAA 177
```

(2) INFORMATION FOR SEQ ID NO: 304:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 167  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00325

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 304:

```
GATCAGATGG TTTTAGTATT GTGGCAGAAG CGAGAAACT TTGTTTATTG AAAAAAAAG 60
AAAAAGAAAG CAAGAAAAA AGATACTATG GGGTCAAGTG TAACTCCATG GAAATGCCAC 120
GTCTGCTCTT CAGTGAAGAA GCTGGTTTAG AGTCTCACAG AAAACTN 167
```

(2) INFORMATION FOR SEQ ID NO: 305:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 170  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00327

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 305:

```
GATCGCTCAC AATNTTTCCT CCAAGAACCG CAAAGCCATC GTGGAAAGAG CTGCCCAACT 60
GGCCATCANA GTCACCAACC CCAATNCCAG GCTGCGCAGT GAAGAAAATA AGTAGGCAGC 120
TCATGTGCAC ATTTTCTGTT TAAATAAATG TAAAACTGC CATCTGGAAA 170
```

(2) INFORMATION FOR SEQ ID NO: 306:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 171  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00328

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 306:

```
GATCGGGAAT GGTCTGTGTG TTATCAGCTG CGACTGGTTC ACTGCGNCTT AGACAAGCCT 60
CATGGGGACT GGGGATTCTG GCCAGTGTA TTTCTGTCAA CCACGGACGT TTGCCTTCAT 120
GTGTAGAATT TACTGTTGTT ATGCAAATTA TATTTTCAAT TATAAATGAA A 171
```

(2) INFORMATION FOR SEQ ID NO: 307:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 164

(B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00329  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 307:  
 GATCAGACAG AATAATATTT NCTAGTTATT ATGTGTAAGA TGAGTTGCTA TTTTCCTAAT 60  
 GCTCATTCTG ATACAACTAT TTTCCGTGTC AAATATCTAC TGTGCCCAAA TGTACTCAAT 120  
 TTAAATCATT ACTCTGTAAA ATAAATAAGC AGATGATTCT TAAA 164

(2) INFORMATION FOR SEQ ID NO: 308:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 261  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00330  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 308:  
 GATCCCCGCC CTGGGGTCTG GTCCTCGCCC ATCCTGCAGG GATTGCCCAC CGTCTTCCAG 60  
 ACACCCCACC TGAGGGGGGC ACCAGGTTTA GTGCTGCTGC TTTCACTGNT GCACCCGCGC 120  
 CCTCGGCCGG CCCCCGAGC AGCCTTTGTA CTCTGCTTGC GGAGGGCTGG GAGACCCTCC 180  
 AGGACATTCC CACNNTCNCC CATGCTGCCA AGTTNNNNCT ATAGCTACAA ATAAAAAAAAA 240  
 ACCTTGTTTT CAAGAAATAA A 261

(2) INFORMATION FOR SEQ ID NO: 309:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 163  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00331  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 309:  
 GATCGAGTCA AGATGAGTTA GTGGAGCTGG GCTTGGCCAG GGAGTCTGGG GACAAGGAAG 60  
 CAGATTTTCC TGATTCTGGC TCTAGCTTCC CTGCCAAGAT TTTGGTTTTN ATTTTTTTAT 120  
 TTGAACTTTA GTCGTGTAAT AAACACCA GTGGCAAACC AAA 163

(2) INFORMATION FOR SEQ ID NO: 310:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 165  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00332  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 310:  
 GATCATGCTG CTGTGATACT GAGTTTTCTA AACAGCATAA GGAAGACTTG CTCCCCTGTC 60  
 CTATGAAAGA GTATAGTTTT GGAGGGGAGA AGTGGGACAA AAAAGATGCA GTTTTCCTTT 120  
 GTATTGGGAA ATGTGAAAAT AAAATTNTCA ACTCTTTCAG TTAAA 165

(2) INFORMATION FOR SEQ ID NO: 311:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 164
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00333

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 311:  
 GATCTCAGTT TCCTGGCTTT TCCTCCCTCA GCCCCTTCTC ACCCCTTTGC TGTCTGTGT 60  
 AGTGATTTGG TGAGAAATCG TTGCTGCACC CTTCCCCCAG CACCATTAT GAGTCTCAAG 120  
 TTTTATTATT GCAATAAAAG TGCTTTATGC CGGCTTTTCT CAAA 164

(2) INFORMATION FOR SEQ ID NO: 312:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 337
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00334

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 312:  
 GATCATTGAA TGTGAGACCC TTCTAACATG ATTTGAGAAG CTGTACAAGT ATAGGCAGAG 60  
 TTATTTTCCT GTTTACATTT TTTTTTTGTT TTGGGGAAAA AATTGGTAGG TGTCTAATNA 120  
 CTGTTTACTT CATTGTTATA TTGCAGTAAA AGTTTTAAAN CANCCATTGC ATGTTNGCTT 180  
 TTGATGTATC CCTTTGNGAA ATTAGCACTT TTGGGGCCAN TGGNGAAATG CAGCATTAC 240  
 TCTCCCTGTC TTTTCCCTT CCCTCAGCAG AAACGTGTTT ATCAGCANGT CGTGAGTCAA 300  
 ACTGCTGCCT TTAAAAAANC CCACAAANTT GNTNNGN 337

(2) INFORMATION FOR SEQ ID NO: 313:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 176
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00335

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 313:  
 GATCCGCCGT CACTGGGGTG GCAATGTCCT GGGTCCTAAG TCTGTGGCTC GTATCGCCAA 60  
 GCTCGAAAAG GCAAAGGCTA AAGAACTTGC CACTAAACTG GGTTAAATGT ACGTGTGTA 120  
 GTTTTCTGTA CATAAAAATA ATTGAAATAA TACAAATTTT CCTTCAGCCA GTGAAA 176

(2) INFORMATION FOR SEQ ID NO: 314:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 176  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00336  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 314:  
 GATCACCTCT GAGACCCACC TTGCTCATAA ACAAAATGCC CATGTTGGTC CTCTGCCCTG 60  
 GACCTGTGAC ATTCTGGACT ATTNNTGTGT TTATTTGTGG CCGAGTGTAA CAACCATATA 120  
 ATAAATCACC TCTTCCGCTG TTTTAGCTGA AGNATTANGN CATCTTGTCT ATTAAA 176

(2) INFORMATION FOR SEQ ID NO: 315:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 258  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00337  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 315:  
 GATCATATTT AATGAATTAT AGTATAATGC TTGCAGGCC AGTACAAGCA TATATATNGT 60  
 GCCTCTTACA GCCTTTGGAA TACATTGTTT CCATTTTSTA AATATCTTCT ATATCCNNNT 120  
 AGTATTCAAA TTATTAATGC TCATGTACCA AGGTNTTGCT ATAAAAGTTT TGTCTGTATG 180  
 AATAATGTGG CTTTAGTAAA TAATCATTN TCAACTGTAA ACTNATTCTG AAATAAAGTA 240  
 AAATNCTAAT TGTTTAAA 258

(2) INFORMATION FOR SEQ ID NO: 316:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 153  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00338  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 316:  
 GATCTTGGAC ACTTACAGAT TGAGCTGTAT GAATTCAGCG GGTCTCACTC CAGAGGGTCA 60  
 GAACGTTTGC TTTAGTTTTT TCATCTGTTT TGTTCTTGA GTCAGTGCTG TTGATGATGA 120  
 GTTGTCTTGA ATAAATNATG TGTTCTTTGC AAA 153

(2) INFORMATION FOR SEQ ID NO: 317:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 157  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00339



## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 317:

GATCAAAGCT AGAAAATGNA GATTCCTTAG CCTGGATTTC CTTCTAACAT GTTATCAAAT 60  
 CTGGGTATCT TTCCAGGCTT CCCTGACTTG CTTTAGTTTT TAAGATTGTG GTTTNCTNT 120  
 NTCCACAAGG AATAAATGAG AGGGAATCGA CTGTAAA 157

## (2) INFORMATION FOR SEQ ID NO: 318:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 161  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00340

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 318:

GATCTCCTTA TATAGCAGCC AAAATCAATG AAGCTAAAGA TTTACTAGAA GGTCAAGCTA 60  
 AAAAATGAAG TAAATGTATG ATGAATTTTA AGTTCGTATT AGTTTATGTA TATGAGTACT 120  
 AAGNNTTTTA TAATAAATG CCTCAGAGCT ACAATTTTAA A 161

## (2) INFORMATION FOR SEQ ID NO: 319:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 313  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00341

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 319:

GATCTGAAAA CATGTAGAGA AGATGAGTTG AGGACAGCTT TTCTAAGGCA ATGTNATGTC 60  
 TTTCCTTTCT NATTTCTNTT TCTCTGCGTT GTTAGTTTTN AAGAGTGGAG GAGCTAGGGG 120  
 CTCCAGAAAG AATCTTACAC ATGTTTTGAA GACATTGATG TCATAGGGAG CGGGGAGCTG 180  
 CATTCCTTTC TGGGCTGTTA CTGCTAAATC TCAGTATGAA CAGACCAGGC GGAAAGCTTG 240  
 GTGGCCAAGC AGTCTGTGTG CTTCCCGCT GATGGAGAAC GTTGC GTTGT TCACAATAGG 300  
 GCCTCATGGG TGN 313

## (2) INFORMATION FOR SEQ ID NO: 320:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 161  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00342

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 320:

GATCTTGTTT ACAAGTAATC TGTTGACAGT GCCAATAAAT NATAAAAAA AAATTAACAT 60  
 GTCACAATGT AACGGATGAC CATATGCACA ATTCCATGAA TTAAATCTGT TTCCTGTGTT 120  
 AGTCAGTATT CTAAATAAA ATTTATAATT GAAACATGAA A 161

## (2) INFORMATION FOR SEQ ID NO: 321:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 163
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00343

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 321:

```
GATCTATTGA NAGCCCTCTC TCNCATTCTG TAATGAGTAC AGCAGAGACC TTCCTGCTTT 60
TAACTGGGGA CTCCAGATTT TCCCCAACT TGCTTCTGTT GAGATTTTTC CCTCACCTTG 120
CCTCTCAGGC ACAATAAATA TAGTTATACC ACTGCCCATC AAA 163
```

## (2) INFORMATION FOR SEQ ID NO: 322:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 156
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00344

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 322:

```
GATCATCCTA ACAATGTGGG GCTGTTAGGT TTTACCTTTG ANCTTTCATA GCACTGCAGA 60
AACCTTTAAA AAAAAAATGN TNNATGAATT TTTCTTTTCC TACAGTTGGG TAGGGTAGGG 120
GAAGGNGGNT AAGCTTTTTT TTTNAAATG ACTGAN 156
```

## (2) INFORMATION FOR SEQ ID NO: 323:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 255
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00346

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 323:

```
GATCATGCTG CCCTGGGACC CAACTGGTAA GATTGGCCCT AAGAAGCCCC TGCCTGACCA 60
CGTGAGCATT GTGGAACCCA AAGATGAGAT ACTGCCACC ACCCCCATCT CAGAACAGAA 120
GGGTGGGAAG CCAGAGCCGN CTGCCATGCC CCAGCCAGTC CCCACAGCAT AACAGGGTCT 180
CCTTGGCAGC TGTATTCTGG AGTCTGGATG TTGCTCTCTA AAGACCTTTA ATAAAATTTT 240
GTACAAAGGC ACAA 255
```

## (2) INFORMATION FOR SEQ ID NO: 324:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 154
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00347

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 324:

GATCTCTAGT ATAACACTCA GGCTACTGAG GTATTTTAGA GCAACAAGCT GGGTTACTTT 60  
 CAGAGCAACC AGCTTGACTG GAACTGAGAG TAAATTGGGA ATGTATGACC AATCTTAGAC 120  
 CCTGAAAAAT GGCAGAAAAT ACATGGAAAT TTGN 154

## (2) INFORMATION FOR SEQ ID NO: 325:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 153  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00348

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 325:

GATCTAGGGA AGACAACGTA GTCACCCTCG GTGCTTCCTC TGTCTCCTCT TTCTCCCTGG 60  
 CCTGTGGTTG TCCCCAGCC TCTGCCACCC TCCACCTCCT CGGTCAGCCC CAGCCCCAGG 120  
 TTGATAAATC TATTGATTGA TTGTGATAGT AAA 153

## (2) INFORMATION FOR SEQ ID NO: 326:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 154  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00349

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 326:

GATCTCTAAT ATTTTAAAGC CCAAGCCCCT TGGACACTGC AGCTCTTTTC AGTTTTTGCT 60  
 TATACACAAT TCATTCTTTG CAGCTAATTA AGCCGAAGAA GCCTGGGAAT CAAGTTTGAA 120  
 ACAAAGATTA ATAAAGTTCT TTGCCTAGTA TAAA 154

## (2) INFORMATION FOR SEQ ID NO: 327:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 158  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00350

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 327:

GATCAAATTC TAATGGAATT GAGCCGGTTT CTTATCCTAA ATGTTTCCTC CCTTTTTACA 60  
 ATCTCTGTCC AGCACCTCTT GGTAAATAA TGTATGCTGT GAGACATGNA ATTAAAACAG 120  
 GCCTATGGAA TAAATTATTT TAAAACCAGN AGGTTAAA 158

## (2) INFORMATION FOR SEQ ID NO: 328:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 155
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00351

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 328:

```
GATCTTAAAG CAGAATGCCN TTNCTTTTT TTGCTTCAGT TGTAAGAAG AGGGAATACA 60
TGATAAAGTA ACTGGTTTGA TTTCTCGTTC ATTGTACACT GCCTCTGAAC ANCTAATTGT 120
TTTGTAGTTGT CTAAATAAAA TGCCTCTAAA ACAA 155
```

## (2) INFORMATION FOR SEQ ID NO: 329:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 165
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00352

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 329:

```
GATCCAAGAG GAAGAATCCA GCTGCCTATG AAAATAACAA ATNAGCAACG CATCCGGATG 60
ACGGTTCCTT GTCTCTGAAA GACCTTTCTC TGGAAGAGGA GTCTGCATTG TAGTGTCTCA 120
AAGACACAAT AACTTCCTA TGGTCTGCAC TGGTGTGATA TTAA 165
```

## (2) INFORMATION FOR SEQ ID NO: 330:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 149
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00353

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 330:

```
GATCTACTTT GTTTGAGCAA AACAGCATT TTTGTTATGT TAATNATGGT TAATTTCCAT 60
TTTATTGGTT TTATGTTTAT TTTAATTTGT AAATGTTTTA GCATTTATNA TTGTATGTNA 120
NCTATATTN CCTATTTNAT GTTGATAAA 149
```

## (2) INFORMATION FOR SEQ ID NO: 331:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 151
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00354

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 331:

```
GATCAAAATG CTAAAACATG ATGATTAAGT GCACACCGTG TGCCATAGAA TGGCACATGT 60
CATTGCCCAC TTCTGTGTAG ACATGGTTCT GGTTTAACTA ATATTTGTCT GTGTGCTACT 120
AACAGATTAT AATAAATTGT CATCAGTGAA A 151
```

(2) INFORMATION FOR SEQ ID NO: 332:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 147  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00355

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 332:

```
GATCTTTGTT CTAGGCAGCT GGGAATAGAC ATGGTACTTA CCTTAGAGTT TTCCAATTTA 60
TCTCAATTTT ATATGGCTTG TGATTCATTT NCTTAATCCA AATATATATA ANCGTGTGTG 120
GTCTNATTCT NCCCCCGCA ANANNAN 147
```

(2) INFORMATION FOR SEQ ID NO: 333:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 151  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00356

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 333:

```
GATCCTTACG GAAAAGGAAC AGATTGTNCC TAAACCAGAN GAGGAGGTTG CCCAGANGAA 60
AAAGATATCC CAGANGAAAC TGAAGAAACA AAAACTTATG GCACGGGAGT AAATTCAGCA 120
TTAAATAAAA TGTAATTAAA AGGAAAAGAA A 151
```

(2) INFORMATION FOR SEQ ID NO: 334:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 204  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00357

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 334:

```
GATCTTTGCA GTAATTTCTA GGAGCTGTTT ATGTTTGGAG GTAATTGGTC CTTTGTCCAT 60
ATATATGAGA TGTAAGTNTT ATTTTCCAGT TTATCTTTTT GCTTATTTTT TTTGACTTTT 120
TATTGTAAAA TAAACATCA AACTGCACAG AACAGTTGAA TAGCTTAATG AATAACTACA 180
GTAAAAGCTA TGTAACCAC TAAA 204
```

(2) INFORMATION FOR SEQ ID NO: 335:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 146  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00358  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 335:  
 GATCCAATTA ACATGTGGGG TTCTTGGTNT GGGTCTGGGG AGCTGAAGGA TTTNATGGAG 60  
 CTGGTGCTTT GGAGGAATCT TAAGGGAAAG NAGTAGAAGC TCAGGCCTTT AAAGGATTTT 120  
 ANCTCCTCCT CTCTGTAATT NNTNCN 146

(2) INFORMATION FOR SEQ ID NO: 336:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 146  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00359  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 336:  
 GATCGCATCT NTTAAACAGG TACAAGTTGA CATGAGGTTA GTTTAATTGT ACACCATGAT 60  
 ATTGGTGTTA TTTATGCTGT TAAGTCCAAA CCTTTATCTG TCTGTNATTC TTAATGTTGA 120  
 ATAANCTTTG ANTTTTTTTCC TTAA 146

(2) INFORMATION FOR SEQ ID NO: 337:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 147  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00360  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 337:  
 GATCAGTGTT GAAGAAAGTG CAAAAGGAAC TTTTATATAT TTAACAGTGT AGGAAATTGT 60  
 CTATTCCTGA TATAATTACT GTAGTACTCT TGCTTAAGGC AAGNGTTTCA NATTTACNGT 120  
 TGAAATAAAC CCAACTCTTC NTGNAAA 147

(2) INFORMATION FOR SEQ ID NO: 338:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 147  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00361  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 338:

GATCTNGAAA ATNATCATTG AACATATTAA TGGTTATTTT TTTTCTTGG ATTTCCAGAA 60  
 AAGCCTCTTA ATTTTATGCT TTCTCATCGA AGTAATGTAC CCTTTTTTTC TGAAACTGAA 120  
 TTAAATACTC ATTTNATCNN NTGNAAA 147

(2) INFORMATION FOR SEQ ID NO: 339:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 140
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00362

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 339:

GATCAGTTTT TTCACCTGGA AGCATTGTGTT TCTACTTTGA TATGACTGTT TTTCGGACAG 60  
 TTTATTTGTT GAGAGTGTGA CCAAAAGTTA CATGTTTGCA CCTTTCTAGT TGAAAATAAA 120  
 GTGTATATTT TTCCTATAAA 140

(2) INFORMATION FOR SEQ ID NO: 340:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 144
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00363

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 340:

GATCTGAACT TTTCATCTGC AGAGGCAAGA AAAATATTTA ACATTGTGAC TTGACTGTGG 60  
 AAGATGATGG TTGCATGTTT CTAGTTTGTA TATGTTTCCA TCTTTGTAAT AAGATGATTT 120  
 AATAAATCTC TTAAATACT TAAA 144

(2) INFORMATION FOR SEQ ID NO: 341:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 291
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00364

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 341:

GATCAAAAGC TTATTCATCT GTTTTNCSTT TTCGTTGGTG TAAAGCCAAC ACCCTGTCTA 60  
 AAAAACATAA ATTTCTTTAA TCATTTTGCC TCTTTTCTCT GTGCTTCAAT TAATAAAAAA 120  
 TGGAAAGAAT CTAATAGAGT GGTACAGCAC TGTTATTTTT CAAAGATGTG TTGCTATCCT 180  
 GAAAATTCTG TAGGTTCTGT GGAAGTTCCA GTGTTCTCTC TTATTCCACT TCGGTAGAGG 240  
 ATTTCTAGTT TCTTGTGGGC TAATTAAATA AATCATTAAT ACTCTTCTAA A 291

(2) INFORMATION FOR SEQ ID NO: 342:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 139

(B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00365  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 342:  
 GATCTTAAAC CTATGATTCA GTAACCTCTT ACCATATAAA AACGATAATT GCTTTATTTG 60  
 GAAAAGAATT TAGGAATACT AAGGACAATT ATTTTATAG ACAAAGTAAA AAGACAGATA 120  
 TTTAAGAGGC ATAACCAA 139

(2) INFORMATION FOR SEQ ID NO: 343:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 143  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00366  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 343:  
 GATCCGTGGC AGGGCTGCTG AGGCCTGTGG GTGGGACACC ANNTGCGAAA CCCTCATCCA 60  
 GTTTTCTCTC CATCTCTTTT CTTTGTACAA TCCCATTTC TATTACCATT CTNTGCAATA 120  
 AACTCAAATC ACATGTCTGC AAA 143

(2) INFORMATION FOR SEQ ID NO: 344:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 139  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00367  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 344:  
 GATCCAGTGA CATTGTGAGT GAAGACGCAA ACAGGTTTTG ACTCCTGCAT GGCCGATGAC 60  
 CTTTTCTGTA GGCTTACCAG AAAAGTACAT NCAACAGTTC TTTGAGGTTT AACTAGAGCA 120  
 GCAAATAAAG CAAAAGTTN 139

(2) INFORMATION FOR SEQ ID NO: 345:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 140  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00368  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 345:  
 GATCAAGAAT CTTTTGTGAA ATTATAGAAA TTTACTATGT AAATGCTTGA TGGAATTTTT 60



TCCTGCTAGT GTAGCTTCTG AAAGGTGCTT TCTCCATTTA TTTAAACTA CCCATGCAAT 120  
TAAAAGGTAC AATGCAGAAA 140

(2) INFORMATION FOR SEQ ID NO: 346:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 142
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00369

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 346:

GATCCAGCTT GCCAGGGACT TAGGTTTATC CTGTTTTGTT TGCTACTGGT TACAAATTCT 60  
ATTTTCTGTA CAATTAGTCA GACTAAAGTT TTCACTGTGT TTGTTTGGCA AAACAAATTA 120  
AACAAAAAGT AAGGTTTTTA AA 142

(2) INFORMATION FOR SEQ ID NO: 347:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 156
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00370

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 347:

GATCTCCGTN AAACACATTT TTNTTCTTAG TCTATCTCTT GTACAAACGA TGTGCTTTGA 60  
AGATGTTAGT GTATAACAAT TGATGTTTGT TTTCTNTTTG ATTTTAAACA GAGAAAAAAT 120  
AAAAGGGGGT AATAGCTCCT TTTTCTTCT TTCAA 156

(2) INFORMATION FOR SEQ ID NO: 348:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 135
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00372

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 348:

GATCTACAAT NGGAGTTGTG AGTNGCAATC TTACATGGCT ACGNCTTTCG TTTGATAGCC 60  
AGTCATGGTN ACCACATGAG AACCATATGC TGAGATGCAA TAAAGTAAGA GAATGTTTTT 120  
TGACAAAAAA ATCTN 135

(2) INFORMATION FOR SEQ ID NO: 349:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 133
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00373  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 349:  
 GATCTTAAGC GTGTCTTGAG TTCCATGCAA ATTCAATTCT GTTGATAATG TGTCCATAAT 60  
 CAAATCATCA TCTTGCAATG CAAGGGCTAC CCCATAATTA TCAGACATTA AAATAGTTTA 120  
 TTTCTTTTTC AAA 133

(2) INFORMATION FOR SEQ ID NO: 350:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 137  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00374  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 350:  
 GATCTCGTTC CGCCGGTTCC CTTGGCCGC CAGTTCCGTT CTCCTCACGG GCCGAACGGA 60  
 ACAAGGGGTC CAGCTTGCGG GGGACCCTCC CCAGCCCATC CCTGCTGTCA AACAAACAAA 120  
 ACCTTGCAAA GCGCAAA 137

(2) INFORMATION FOR SEQ ID NO: 351:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 132  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00375  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 351:  
 GATCAAGCGT GCTTTCCTTA TCCGAGGAGC AGAAAATCGT TGTGAAAGTG TTGAAGGCAC 60  
 AAGCACAGAG TCAGAAAGCT AAATAAAAAA ATGAAACTTT TTTGAGTAAT AAAAATGAAA 120  
 AGACGCTGTA AA 132

(2) INFORMATION FOR SEQ ID NO: 352:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 142  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00376  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 352:  
 GATCAAGTTC CCGCTGCCCC ACCGGGTNCT GCGCCGTCAG CACAAGCCAC GNTTCACCAC 60  
 CAAGAGGCCC AACACCTTCT TCTAGGTGCA GGGCCCTCTT CCGNGTTTTG CCCCATAATA 120  
 ACTCANGAAC GNCCCGGTTA AA 142

## (2) INFORMATION FOR SEQ ID NO: 353:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 142
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00377

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 353:

GATCAAGGAT ATTTGAAATC ACTACTGTGT TTTNCTGCGT ATCTGGGGCG GGGGCAGGTT 60  
 GGGGGGCACA AAGTTAACAT ATTCTTGTT AACCATGGTT AAATATGCTA TTTTAATAAA 120  
 AATATTGAAA CTCACCAGTA AA 142

## (2) INFORMATION FOR SEQ ID NO: 354:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 134
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00378

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 354:

GATCTCTAAT GAAAAAGGGA TGTCTTTTTG TTTATAGTCA TGTGGCAAGA TGAGAGTAAA 60  
 ACCAGAGAGC AAACCTCTAT AAGTNTTGAG TATATGTATA CATTTGAAAT AAACCAGAAA 120  
 TTTGTTACCT TAAA 134

## (2) INFORMATION FOR SEQ ID NO: 355:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 132
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00379

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 355:

GATCAGCTCT GAGGTGCACT TCTTCACATA CTGTACATAC CTGTGACCAC TCTTGGGAGT 60  
 GCTGCAGTCT TTAATCATGC TGTTTAAACT GTTGTGGCAC AAGTTCTCTT GTCCAAATAA 120  
 AATTTATTAA TN 132

## (2) INFORMATION FOR SEQ ID NO: 356:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 143
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00380

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 356:

```
GATCNGGGCT GGATTGACGG ATGTCACCCC CNATCCCCTC GTGACATGCA CGTCNGCAGG 60
AATGGGGGGT CTGCNGTGGT CGCCNGTCGT GTGAACAAGA TTCCGTCAAA ATATTTTCTG 120
TTAATAAATT GCCTTCATGT AAA 143
```

(2) INFORMATION FOR SEQ ID NO: 357:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 136  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00381

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 357:

```
GATCTAGAAG ATGATGTTCA AACTATGAAA CTGCTTGTTGA ATTGTGAAAT GACTTTGTTC 60
TTTGCTTGTT TTTTNAATT TCCTATAATG NACATACTAA CTTTTAAAAA ATAAAGGTTA 120
TTTTAAAAGC CTGAAA 136
```

(2) INFORMATION FOR SEQ ID NO: 358:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 133  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00382

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 358:

```
GATCTTCTAT GTAACAGTTG AAATNTGGAA GTGACGTCAC TTACCTGTCT AACGTGGTGT 60
GGGNGAGAAT TTACAAGTCC TTTATTGNAA GAATAATTGT TGCAAAATAT ATTGCTTCTA 120
CTTTGCCTGG AAA 133
```

(2) INFORMATION FOR SEQ ID NO: 359:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 130  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00383

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 359:

```
GATCAAGAAT TTGGGTGGGA GAAAAGAAAG TGGGTTATCA AGGGTGATNN GAAATTTTCT 60
GCAGCATTAAGCTGGCGCT TAATAAGAAT AAGTAATAAT AAAGAAATTT CTAACATTCC 120
ATGTCAGAAA 130
```

(2) INFORMATION FOR SEQ ID NO: 360:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 157

(B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00384  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 360:  
 GATCTGAAAC TAATAGTAGG AGTTTCCCCA GAAGTCATTT TCAGCCTTAA TTCTCATCAT 60  
 GTATAAATTA CCATAAATNA TGCATGTNTG TTTACTTTAG TGACGTTCCA CAGAATAAAA 120  
 GGAAACAAGT TTGCCATCTT GGTGTTGCAA TATGAAA 157

(2) INFORMATION FOR SEQ ID NO: 361:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 132  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00385  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 361:  
 GATCTGAAAA GGCGTCTNCA CTGCTTTATC TCATGATGCT TGCTTGTAATA ACTTGATTN 60  
 AGTTTTTCAT NNCTCAAATA GGAATACTAC CTTTGAATTC AATAAAATTC ACTGCAGGAT 120  
 AGACCAGTTA AA 132

(2) INFORMATION FOR SEQ ID NO: 362:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 197  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00386  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 362:  
 GATCTGCCAG GNTGGGTGGT TCTACTGCTT TCTCAATTTT TAAGAACCTT TTTTTTTTCT 60  
 NAAAGAGTTC TGCTGAATTA TTTGACAATA TTTGNAAGTA CCATGTTTCC TNGNGGGGTA 120  
 TGCTCTGTNC TGGTTTCTGT TTTNAAATCA AATGCCTGTT TGGGAGGAGA TGAACGNATT 180  
 NAGTCTATTA GATTTGN 197

(2) INFORMATION FOR SEQ ID NO: 363:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 128  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00387  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 363:

GATCACAGTG TCAGAGACGC GTCCTCTTTC TTGGGGAAGT TGAGGAGTGC CCTTCAGAGC 60  
 CAGTAGCAGG CAGGGGTGGG TAGGCACCTT CCTTCCTGTT TTTATCTAAT AAAATGCTAA 120  
 CCTGCAAA 128

(2) INFORMATION FOR SEQ ID NO: 364:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 127
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00388

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 364:

GATCCCAGGA GACACCAGGG CCAGAGTGAC CACAGCAGGG CAGGCATCAT CGTGTGTGTG 60  
 TGTGTGTGGA TGTGTGTGTG TGGGTTTTNT AAAGAATTCT TGACCAATAA AAGCAAAAAC 120  
 TGTCAAA 127

(2) INFORMATION FOR SEQ ID NO: 365:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 129
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00389

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 365:

GATCTACAAA TGGGAAGCTT GTGAGTGGCC CATCTTTGTT GGCCTACGAA CTTTGGTTTG 60  
 ATGCCAGTCA GGTGCCACAT GAGAACCTTT GCTGAGATGC AAATAAAGTA AGAGAATGTT 120  
 TTCCTGAAA 129

(2) INFORMATION FOR SEQ ID NO: 366:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 125
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00390

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 366:

GATCAGCTAT TAAATTTATA TAAACATAG GCATGTTTGT ACTAATGAAA CGTACTGTCA 60  
 ACCTCTATCA CATTGTTAAA TTAACACTTT TGGTGGTAAC TCAATAAAAT TGAGAAAATT 120  
 GGAAA 125

(2) INFORMATION FOR SEQ ID NO: 367:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 246
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single

- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS00391
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 367:

```
GATCTTTTTA ATTATAATTT TGTTGTATTT GTTTCCTAGG AGCAAGTGTT CCTGCTGCCA 60
GTTCTTTCCT CTTTAGGCGT GGTGAGAAA AAGCAGAAAC TTTACATAAA GCTGTATTTC 120
TTAATCATCT TTAATTTGAA ACTTAAGNAA ATGAATTTAT TCTGTNATAT TTATGTAAC 180
NATTTCTGG NAGTNATATC TACTAGTNTT GNTTGATAAT AATAAAATTN GGCTATACCT 240
TGNAAA 246
```

(2) INFORMATION FOR SEQ ID NO: 368:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 132
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS00392
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 368:

```
GATCTAAAT TTATTGTGGT GATGTTTGCA TAACAGTGCA AATATACTGA AAACCACTGA 60
ATTTTACACT TTAAATCAGT GGCTTCTGTG GTATGTTATC AATATTCTC AATAAACTT 120
CAAAAAATA AA 132
```

(2) INFORMATION FOR SEQ ID NO: 369:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 131
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS00393
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 369:

```
GATCTGGTAT TAGGAAATTA CTTTCACAGT AAATATCAAA GAAAAAAGAT TAAGGGTCTC 60
TTTGCCATGC TTTTCATCAT ATGCACCAA TGTAATTTT GTACAATAAA ATTTTATTTC 120
CTAAGTAGAA A 131
```

(2) INFORMATION FOR SEQ ID NO: 370:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 123
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS00394
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 370:

```
GATCTGAAAA AGAACACTGT GCGAGATTGT ATTCCTGCTT ATCCTTTCCA AGTTAGTAGG 60
```

CAGATTGGAA CTATAGAATT TATCCGTGAT AATAATAAAG TCCGCATAAC TTTTGTCTCTG 120  
 AAA 123

(2) INFORMATION FOR SEQ ID NO: 371:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 123
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00395

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 371:

GATCTAAAGA GAAACTGTAG ATTGTTTTCC TGACAGCAAA AGACTAATGT GACAAAATGA 60  
 AGTCATTGTA AAGAAGCGAT GCAACTTGTC AAATATTAA TAAAGAATTA TGGAAGCTGG 120  
 AAA 123

(2) INFORMATION FOR SEQ ID NO: 372:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 124
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00396

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 372:

GATCACAAC GNAAGATAAC AAGAGATTTA AGTTTTAAGG GCATTTAATC AGGAGGAAAG 60  
 GTTTGGA AAA CTAAC TCAGG TGTATTTNTT GTTTAAGCAG AAATAAAGTT TAATTTTNC 120  
 TTGN 124

(2) INFORMATION FOR SEQ ID NO: 373:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 122
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00397

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 373:

GATCTGTGTT AGAATGAGTG CTTTCCCTTC CTACTGATGT GATTGTGGAT TAGGAATTCG 60  
 TGACCGAGTG ATTTTTGGCC AGTGGTTGGG TTAAAATTC TATTAAAATT TGTAGTTTGG 120  
 GN 122

(2) INFORMATION FOR SEQ ID NO: 374:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 121
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear



(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00398  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 374:  
 GATCGCCGCC CTGCTGGCCA CCTGCGNTGG NGCTGGCNCT CGTGGTCGTC GCGCTGAGAA 60  
 AGTTTTCTCC CTCCTGAAGC GAATAAAGGG GCCGCNGCCG GCCGCGGCGC GACTCGGCAA 120  
 A 121

(2) INFORMATION FOR SEQ ID NO: 375:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 120  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00399  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 375:  
 GATCAGGCCC GGTGCCTGCA GACCTGGTGC TCCCTCGGGC AGGGCTGGGT GCCGCACCGC 60  
 CTGCTGGCTT TTCTGGCAGC TCCTCTGTAT CAGAACCAAT AAAGTGCAC TGTCTCGGN 120

(2) INFORMATION FOR SEQ ID NO: 376:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 119  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00400  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 376:  
 GATCAGGCAG TCCTTNAGGA TAGACAGATA TACACACCAC ACACACACAC CACATACACC 60  
 ACACACACAC GTCCCATCC ACTNACCCAC AACTACACA GNCTGNTNCC TTATAGCTN 119

(2) INFORMATION FOR SEQ ID NO: 377:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 225  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00401  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 377:  
 GATCTNATTT GTAACCCACT GAGAGGACAG AGAGAAATAA GTGCCCTCTC CCACCCTCTN 60  
 CCTACTGGTC TCTCTATGCC TCTCTACAGT CTCGTCTCTT NTACCCTGGC CCCTCTCCCT 120  
 TGGGCTGTGA TGAAAAATTG CTGACTGTAG CTTTTGGGAG TTTAGCTCTG AGAACCGTAG 180  
 ATGGATTNCA GTTCTGGGAA AATAAAACCC GTTGATTACT NNAAG 225

(2) INFORMATION FOR SEQ ID NO: 378:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 125  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00402  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 378:  
 GATCTTAATA TATTTGAAAA AAAC TTCATT CTCGTGAGTC ATTTAAATGT GTACAATGTA 60  
 CACACTGGTA CTTAGAGTTT CNGTTTGATT CTTTTTTAAT AAAC TACTCT TTGATT TAAA 120  
 GCAA 125

(2) INFORMATION FOR SEQ ID NO: 379:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 147  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00403  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 379:  
 GATCTCAGTT CTGCGTTTAT TGTAAGTTGA TAAAAACATC TGGAAGAAAA TAACTAAAAC 60  
 TGTTCATC TTTGTATGTA TTTATTACTT GATGTAATAA AGCTTATTTT CATTACAAT 120  
 TTGTATTAAA ATNTGGGTTC CTGAAA 147

(2) INFORMATION FOR SEQ ID NO: 380:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 116  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00404  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 380:  
 GATCACCTTT TCAGAAATTT AGATGTGAAC ACCAAAAGAA GCATTTTCTC AACAAAAATT 60  
 AATAGCTGGT TCTATTTTTT TTAAACCTAG AAAAAATAAA GTTGATTTTT TTCAA 116

(2) INFORMATION FOR SEQ ID NO: 381:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 119  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00405  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 381:

GATCAATAGG GAGAGAAAAT CCACATTCTT GGGCTGAACG CGGGCCTCTG AACTGCTTA 60  
 CACTGCACTC TGACCCTGTA GTACAGCAAT AACCGTCTAA TAAAGAGCCT ACCCCCAA 119

(2) INFORMATION FOR SEQ ID NO: 382:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 115
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00406

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 382:

GATCTTTATT ATGGAAANCA TTTCAAGTTT ACTCCTTCTG TTTAAGTTT TGTAGCAGTG 60  
 TACCCACGCT GGGTATTACN NCCNAAATAA TCTGTNAGTG AAAGTTGCCA TTATN 115

(2) INFORMATION FOR SEQ ID NO: 383:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 115
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00407

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 383:

GATCGANCTG CGCAANTGNG NAAGCTGCAG AGGACATCGC GTACCANCTC TCACGCTCTC 60  
 GGAACATCAC CTACCTGCCA GCGGGGCAGT CCGTGCTCCT CCAGCTGCCC CAGTN 115

(2) INFORMATION FOR SEQ ID NO: 384:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 113
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00408

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 384:

GATCTCTCAA AAAACAAAGA ATTACATGAG TTAGTACATG AAAAAATTAT GGGAAACTAC 60  
 ATGAAATATA CTGTTACGTT CAATAACAT TAGCTTCTGT ATATAATANT AAA 113

(2) INFORMATION FOR SEQ ID NO: 385:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 116
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00409

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 385:

GATCTCTTCC CCAACTTCC TAACACTTAT TAATTTATGA AACTGTTTT CTCAGCGCAG 60  
TTTTGTTTTG TGTGTCCATT GGATTACAAA CTTTATTAAA AAATATAAAA CACAAA 116

(2) INFORMATION FOR SEQ ID NO: 386:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 118  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00410

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 386:

GATCTCTCTC TTCTCGCGCG CGCACTCTCT CTTCAACACT CCCCTGCGTA CCCC GTTCT 60  
AGCAAACACC AATTGATTGA CTGAGAATCT GATAAAGCAA CAAAAGATT GTCCCAA 118

(2) INFORMATION FOR SEQ ID NO: 387:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 247  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00411

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 387:

GATCTATAAA AAGTCAGCAA CTGATGTGTT TGAAAAGCAT CCTTGCTCNT ATATCCTAAT 60  
GTTTGGATGT GTCTTTNCTA AAGTCTCACA AAAATTAGTG GTAGCTCACA TGACCAAAAG 120  
TGAACATAT CTNCAAGACA CTGTCTNNGG GGGGCCAGGT CTTTTGTTTT TAGGNCCAGT 180  
ACTTNNATAA TTTTNTAGAC GGATATGGTT GTCCTATGGA TGGCAATGGG TGNTTNTCTCC 240  
ATTTGNN 247

(2) INFORMATION FOR SEQ ID NO: 388:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 112  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00412

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 388:

GATCCTAGGA AGAGAGAACA GAGTGGCTCA CAAGCCCCAA CACAGTNAGC AGCAGATGAC 60  
AGGCACNCTN AGACCACACT NTAGGCCACC CATGGGNCCA AAAGGGAACA GN 112

(2) INFORMATION FOR SEQ ID NO: 389:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 111  
(B) TYPE: nucleic acid

(C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00413  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 389:  
 GATCACCACN TAAGTCAGAA AAATGTATTT TTAAATGTTT CTTGAAGTGC CTTTTGAACA 60  
 TTTTAAACA GCGGATTAA ATAATGCATA AANTAAATTG CCATGNTCAA A 111

(2) INFORMATION FOR SEQ ID NO: 390:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 109  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00414  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 390:  
 GATCACCTTA GTTTGATTCT ATTTTTTAGC TTGCAAAAAG TGACTTATAT TCCAAAGAAA 60  
 TTAAATGTT GAAATCCAAA TCCTAGAAAT AAAATGAGTT AACTTCAA 109

(2) INFORMATION FOR SEQ ID NO: 391:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 111  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00415  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 391:  
 GATCGTNACG CTCGCATCTA TAGATAACGG CTCTCCAGAC CTGAGCTTTC CGCGTCANAA 60  
 TGTAGGAATN GTTTTTCTG CAGAGAATAA AAGGACCACG TGNAATACTT N 111

(2) INFORMATION FOR SEQ ID NO: 392:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 109  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00416  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 392:  
 GATCTTATTG AAGGACATCT TACAGCTTCC CAATGAGAGG CCAGGAAGTG TGAACATACT 60  
 GATAGAAAAA GACTATATTT TATCCCTCAT AAAATGTTTT AAATGTAAA 109

(2) INFORMATION FOR SEQ ID NO: 393:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 116  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00417  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 393:  
 GATCACTGAG TGTACAGAAG AGAGAAATTC AAACAAAATA TTGCTGTTCT TCAGTTTTGT 60  
 TTGTGGAATT TAAATNACT CAAATTTAAA ATAAATNACT GGACTGTGGA AATAAA 116

(2) INFORMATION FOR SEQ ID NO: 394:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 115  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00418  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 394:  
 GATCTCAAGA GTTCACCTGG CTNACAGAAA GAAGATGCCA GATGACACTT AAGACCTACT 60  
 TGTGATATTT AAATGATGCA ATAAAAGACC TATTGATTTG GACCTTCTTC TTAAA 115

(2) INFORMATION FOR SEQ ID NO: 395:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 114  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00419  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 395:  
 GATCATTCTG AACTGTACAT ATTTATGTNG CGAGAGGCCA AGGGCAAGTT TTGGATTTTC 60  
 CTTCTTCCAA GTTTGTTTTT AAACGACAAA TAAAAAAGA ACATTTTAAA TAAA 114

(2) INFORMATION FOR SEQ ID NO: 396:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 106  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00420  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 396:  
 GATCTGAATC TNTGACTTAT TGATTATGGA ACCTGTCAAG TAGTTTTNAA CTCTCCAGT 60  
 GAGGATAATT AAACATGCTC AGCCTGAGCC ACCTCTAAGT NTCAAA 106

## (2) INFORMATION FOR SEQ ID NO: 397:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 107
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00421

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 397:

GATCGTTCTT CATGGGGGTA AGAAAAGCTG GTCTGGAGTT GCTGAATGTT GCATTAATTG 60  
 TGCTGTTTGC TTGTAGTTGA ATAAAAATAG AAACCTGAAT GAAGAAA 107

## (2) INFORMATION FOR SEQ ID NO: 398:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 112
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00422

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 398:

GATCCCCTCA AAAGGCAGGA NTGCTGCCCT CTNCCATGGT GCCCGTNCCT CTTTGCTGTN 60  
 TATGTNAACC ACCCATGTAA GGGAATAAAC CTGGCACTAG GTCTTAAATA AA 112

## (2) INFORMATION FOR SEQ ID NO: 399:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00423

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 399:

GATCANCTCT AAGGTGCAAC TNCCTCCACA TACTGTACAT ACCTGTNACC ACTCTTGGA 60  
 GTCCTGCAGT CTTTAATCAT NCTGTTTAA CTGTTGTGGC ACAAN 105

## (2) INFORMATION FOR SEQ ID NO: 400:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 104
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00424

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 400:

GATCTGGAAC TTGAAGATGC CATTACATA GCCACTTAAC CTAAAGGGAA AGCTTTGAAG 60

GGCAAATGAC AGAGGGTAAC ATAGGAGGTN GGATNCTNAA TNNN

104

## (2) INFORMATION FOR SEQ ID NO: 401:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 104
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00425

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 401:

GATCTTTGAT ATATCATAGT CATTAAAAGA CNNTTTCGTA TTTGTATTGA TAATGTATTA 60  
 AAAGTNGTTT GTNCTTAATA AAAGACTTCT TTAANCATCT NAAA 104

## (2) INFORMATION FOR SEQ ID NO: 402:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 109
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00426

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 402:

GATCCCCGGC CTCAGTCCCT ACTCTGCTTT GGGATAGTGT GAGCTTCATT TTGTACACGT 60  
 GTGACTTCGT CCAGTTACAA ACCCAATAAA CTCTGTAGAG TGGAACAAA 109

## (2) INFORMATION FOR SEQ ID NO: 403:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 110
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00427

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 403:

GATCACCTGC AGCTGGCCAC ACCACAGGCC CCCGNTGCCT GCAGCACTAC TCNGTNCCTN 60  
 AAACACCTGG CCTGCTAGGA GGCTCCAATA AAGCTAACCC GGACCAGAAA 110

## (2) INFORMATION FOR SEQ ID NO: 404:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 157
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00428

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base



(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 404:  
 GATCCTCAGA ACTTCTCTGG GACAATTTCA GTTCTAATAA TGTCCTTAAA TTTTATTTCC 60  
 AGCTCCTGTT CCTTGGA AAA TNTCCATTGT ATGTGCATTT TTAAATGAT GTCTGTACAT 120  
 AAAGGCAGTT CTGAAATAAA GAAATTTTA AAATAAA 157

(2) INFORMATION FOR SEQ ID NO: 405:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 103
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00429

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 405:  
 GATCAGCAAC ATTTGCTGAG CCTGTTTTTN AAGCTAATGT GTATTCTNAC TAATNTNCCT 60  
 ATCAAGAATG GATTTGTAAT ATATNCTGTC TATTTCTAAT GTN 103

(2) INFORMATION FOR SEQ ID NO: 406:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00430

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 406:  
 GATCTGTAAG CACAGTCTTA TTNCTTTTG TTGTCCAGAA TACTTATAAT TCTTGAGCCT 60  
 CCCAGAAATT GGAAGCTAAA TAAAGCAACT CAAGTTTCCT TTAA 105

(2) INFORMATION FOR SEQ ID NO: 407:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 104
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00431

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 407:  
 GATCAGCATC ATTGGAACAT GGGGACGAGT GACGGCAGGA GGACCACGAG GAAATACCCT 60  
 CAAAATAAC TTGTTTACAA CAAAATAAAG TATTCAC TAC CAAA 104

(2) INFORMATION FOR SEQ ID NO: 408:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00433

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 408:

GATCTATCAC TCTCGTNCTT GTAGCTCCCA GCCGAGGACG TCGGATGTAA TCGTCCTTNC 60

TGCTTTGCCA CCCCATTTCC GTCAATAAAG TGGTTTGAAC CCAA 105

(2) INFORMATION FOR SEQ ID NO: 409:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 105

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00434

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 409:

GATCAAACCT TTCTGGCCTG TTATGATTCT NAACATTTGA CTTGAACCAC AAGTGAATCT 60

TTCTCCTGGT GACTCAAATA AAAGTATAAT TTTNACCTGC GGAAA 105

(2) INFORMATION FOR SEQ ID NO: 410:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 101

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00435

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 410:

GATCAACACA AAGCACAATG NATTACNCGN AATTCAGTAT TTTCAAATTT ACATATTTAA 60

AGTCATGCAA GCTGTAACTT CCCNGTCAAA ATTACTNGCT N 101

(2) INFORMATION FOR SEQ ID NO: 411:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 100

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00436

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 411:

GATCATAAAG NNCTATCAAG GAGTTCTATC AAGGCATCCA TGTCAGTGGT GCTATGCTGG 60

TTACAACTTG AGATTTTGA AATAAAAAAT TTGTCATAAA 100

(2) INFORMATION FOR SEQ ID NO: 412:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 103

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00437  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 412:  
 GATCAACAGG CTTATTAGAA GAATGAACTA AGGTGTCTAC CATGATTATN TTTCTAAGCT 60  
 GGTTGGTTAA TAAACAGTAC CTGCTCTCAA ATTGAAAAAG AAA 103

(2) INFORMATION FOR SEQ ID NO: 413:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 99  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00438  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 413:  
 GATCTTGTGC TGTGTCAAAG TAACAGACTA GAACCTTCTT TCAAGTACCT GAATTGAAAT 60  
 NAAACTCATT TTGAATAATA AAAACTCTAG AAACCTCAA 99

(2) INFORMATION FOR SEQ ID NO: 414:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 99  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00439  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 414:  
 GATCTGTAAT AGCATATTGT AGATGCACTT TGCAGCAGTT GGAAAAGAAA GTGTTGTGTG 60  
 ATTTGATTGA AATAAACTA AATGTGTTGT CCTCCTAA 99

(2) INFORMATION FOR SEQ ID NO: 415:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 96  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00440  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 415:  
 GATCCCTGTG CCAGGAGCCA ACCTGGTCTT CCCGAGGGTC AGTGCCCCAG TGAAGACAGA 60  
 AGCGAGAGAA TAAAGTTCCC TGTAGGTCCT CTGTCTN 96

(2) INFORMATION FOR SEQ ID NO: 416:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 97

(B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00441  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 416:  
 GATCCTCCCA TCCGTGTTGT GAGCACAGGC ATTTGTGTNT GGNCTGTCCT CCCTGTTGAT 60  
 TGGTCTGGCA TTTCCGGTAT TAAAATGATA ANATAAA 97

(2) INFORMATION FOR SEQ ID NO: 417:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 93  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00442  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 417:  
 GATCCTGCAT ATCTCAAGGA CCCTAAAGTT TGTAACATCA GATATCGGGA ATAAATTCTA 60  
 TCACGTTACC ACTAATAAAC TTATTTTACA GTN 93

(2) INFORMATION FOR SEQ ID NO: 418:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 97  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00443  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 418:  
 GATCTGTATT TTGCAAATAT TTTCTTCAAT ATGTGGCTTG TCTTTTGGTT CTCTTAACAA 60  
 GGTCTCTTCC AGAGTATAAN CTGTAAATAT TAAGAAA 97

(2) INFORMATION FOR SEQ ID NO: 419:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 98  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00444  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 419:  
 GATCTGGACA GAATCGCCGG ACAGGTGGCA GCTGCAACAA GAAGCATTAG AACAAACCAT 60  
 GCTGGGTAA TAAATTGCCT CATTGTAAT CCTGGAAA 98

(2) INFORMATION FOR SEQ ID NO: 420:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 100  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00445  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 420:  
 GATCTATTCT GAGTATTTTT TAGAGAGTTA ATATTTATAT TTTTAGTAAT TTTCTGGTAG 60  
 AAGGAAATTG CACAATAAAA TNATTTGGTT TGGTTTGAAA 100

(2) INFORMATION FOR SEQ ID NO: 421:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 93  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00446  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 421:  
 GATCGTTGGC ACCATAGCCT TATGGCCAAC AGGTGGTNTG TGGTGAAAGG GCGTGGAGT 60  
 TTCAATATCA ATAAACCACC TGATATCAAT AAA 93

(2) INFORMATION FOR SEQ ID NO: 422:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 94  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00447  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 422:  
 GATCTGTGTT TNCCCTGACG AATGGAATTT ATCCTCACAA ATTGGTGTTC TAAATGTNTT 60  
 AAGAACCTAA TTAAATAGCT GACTACAAAA CAAA 94

(2) INFORMATION FOR SEQ ID NO: 423:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 206  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00448  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 423:  
 GATCCCAAAC CTTACGGCCA AGTTTCTTCT AGTATGATGG AAAGTTTCTT TTTTCTTTGC 60  
 TCTGAATAAA ACTGAACTGT GGGTCTCTA TAAGTGGCAT TTTGGGCTTT CCCTCTTTTT 120

TGTAAAGCAA TGTCTGCCTA GTTTATTGTC CAGTTAACTT TAGTGACCTT TAAAAAGTTG 180  
GCATTGTAA TAAAACAAC TGC AAA 206

(2) INFORMATION FOR SEQ ID NO: 424:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 481
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00450

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 424:

GATCTCACCA CTGCACTCCA GCCTGGGCAA CAGAGCGAGA CTCTGTCTCA ACAACAACAA 60  
CAAAAAGTCC TGAACATGAT TGTGGAAGTG TGTGCTCTT TCAAGTTCTA TCACTTTTGT 120  
TTTGCAAAGT TCAAAGCTGT ATTGTTTGGT ACATATACAT GTAGGTTTGC CAAGTCTTTG 180  
TGGTGAATTG ACTCTTCTGT CATTATGTGA TGTCATTTT TTGCCTTTTA ATAGTCTTGT 240  
CAATACTTTA CCTGATGTTT TCATAGTGAC TCCTGCATAT TTTGATTAAT GTTTGCATGG 300  
TTAATATTTT TTCATTTTAT TTTAAAGCTT ACCTGTATCA TTACTTATGA AGTCAGTTTC 360  
TTTGAACAGC ATATACTCAG GCCATGCTTT TTTTNATTCA TTCCTGCATA TGGCTCTCCT 420  
TAAATTGGGA ATGGTGAAA ATGGNTTAC CATTANAAT AAATTAATTG GTATTTTAA 480  
A 481

(2) INFORMATION FOR SEQ ID NO: 425:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 87
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00451

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 425:

GATCTGGTCC ATGAGGCTGC CCAGAGAAAG CACTGCTTCT NTATGTCTCT TGTGGTATTG 60  
GAACAATAAA CCCGTACAAC CTGCAA 87

(2) INFORMATION FOR SEQ ID NO: 426:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 93
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00453

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 426:

GATCATACTT GAAAGTGAAC TTAAACATTG AAAAATCGTA CAGTCATTTT AAGAATAAGA 60  
AAATAAAATT TTCTCTTTGT CTGAACCTGC AAA 93

(2) INFORMATION FOR SEQ ID NO: 427:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 85  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00454

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 427:  
 GATCCCATGT GCTCTCACAC CATGTTTTTG TACAGAACTG ATGGTTGAAT CTTTGTTC 60  
 TTGAAATAAA CAGAAGAAAA TGAAA 85

(2) INFORMATION FOR SEQ ID NO: 428:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 87  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00455

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 428:  
 GATCTATTAA AGAAGTAATT GGCCTTCTG AGCTGATTTT TCCATCTTTT GTAATTATCT 60  
 TTATTAAAAA ATTGTACTTG GATTAA 87

(2) INFORMATION FOR SEQ ID NO: 429:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 91  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00456

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 429:  
 GATCTCATTC CATGGGAAAA AAAAAATCC TGTCTTNTTC ANAAATTGAC AATGTAAATA 60  
 AATTNAAATA TGGTTCCTG TTACTCTTAA A 91

(2) INFORMATION FOR SEQ ID NO: 430:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 84  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00457

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 430:  
 GATCTGAGAA ACAGGTGTGA CAAGAGCATG AACCANAGGT GCACCTGGGG CAGTTCCTA 60  
 ATAAAACTGG TTTGTACAGT CAAA 84

## (2) INFORMATION FOR SEQ ID NO: 431:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 83
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00458

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 431:

GATCATGAGA GTGCCTGTCC CTTGTGAGCA CTATGAAAGT GTTAGCTGTT CTTTACCAGA 60  
ATAAATGCAT TTCTATATCT TCN 83

## (2) INFORMATION FOR SEQ ID NO: 432:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 84
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00459

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 432:

GATCACCGAC TGAAAATATT GTTTTACAAT AGTTCTGTGG GGCTGTTTTT TTGTTATNAA 60  
ACAAATAATT TAGATGGTGG TAAA 84

## (2) INFORMATION FOR SEQ ID NO: 433:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 80
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00460

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 433:

GATCTTGATG GATTTCATA CGATTGTAA TGNAGCTATA TTAAAGTCTA TTAAAGGAAG 60  
CCCTTCTTGT TTGAGGGAGN 80

## (2) INFORMATION FOR SEQ ID NO: 434:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 86
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00461

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 434:

GATCTATGCT TGTTTGTTTT TGTAATCCAT ATCATAGTTG CTTTCTTTAA TTGTTTCCTC 60



TGAATAAACA GTTTATTTAA GATAAA

86

## (2) INFORMATION FOR SEQ ID NO: 435:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 83
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00462

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 435:

GATCCAGTCA CTGACTCTGT CTGGTGTGA CAGAGGATTT ATTTAAGCTA TTATTTTAAT 60  
 AAAGNACTTT GTACATTTTT AAA 83

## (2) INFORMATION FOR SEQ ID NO: 436:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 85
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00463

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 436:

GATCTACATA CAAACAAATG CAACCAACTA TCCAAGTCGT TATACCAACG TAAAACCCCC 60  
 AATAAACCGT TGAACATGTG ACAA 85

## (2) INFORMATION FOR SEQ ID NO: 437:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 86
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00464

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 437:

GATCTGCTTT TACTTTGTAA TTTGTAGTTC TCAAAGACT TTTTTTTAAA AAAATAAAGN 60  
 CCATACTTAC ACTTAGGCTT TATAAA 86

## (2) INFORMATION FOR SEQ ID NO: 438:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 83
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00465

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 438:  
 GATCATTCTG AGTGTGCGAG TGTGTGTGCA CATGTTACAA AGGCANCTGC CATGTTAATA 60  
 AAATATTCAA TTTGAAATCC AAA 83

(2) INFORMATION FOR SEQ ID NO: 439:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 78
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00466

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 439:  
 GATCCAAACT GTCTTTTTTT TGTATCTGTT ATTTAAAGCC CAGTGGATAT TTCAATNAAA 60  
 AAAAAAATCT AAAGATGN 78

(2) INFORMATION FOR SEQ ID NO: 440:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 80
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00467

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 440:  
 GATCTGACCA CCTCTGCCCT GTCCACCAGG ATAAGTGACA CCTAGGACCC AGGAAATAAA 60  
 TGCCGATGAT TTGTGTGAAA 80

(2) INFORMATION FOR SEQ ID NO: 441:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 73
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00468

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 441:  
 GATCTTACAG GGAGAGAGAT TGGGTGCAAT TTGCCTCTTT CTTTGAATAA AAAGCTCTTT 60  
 GCTCACCTC AAA 73

(2) INFORMATION FOR SEQ ID NO: 442:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 197
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00469

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 442:

GATCAAAAGT CTACATAACT AATACTCACA GCTGAGCTAT GTAGTATGCT ATGATTAAAT 60  
 TTACTTATGT AACTTTTATT GTCTTTGGCA TTAACAGTGT TTCAAAAAAT TTCCTGTGTA 120  
 TACCCATCAG TGATTCATTC CCAAATCTNC TAGAAGCATA AGTGTCTCAA TATATTAAAA 180  
 CATATTGAAT AATCAAA 197

## (2) INFORMATION FOR SEQ ID NO: 443:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 75  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00470

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 443:

GATCCAGGCG CCACGCTGGC GGTTTCGTGAG TGTCGAGGCA CCACTAAATA TAGCTGTCTG 60  
 CCGTCCACTC ATAAA 75

## (2) INFORMATION FOR SEQ ID NO: 444:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 74  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00471

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 444:

GATCANATTG TAAGCTTTTC TGTTTNATTT CTTTAAAGAA CCTTTGAATA AAAAACATCT 60  
 GAAATTTTAA NAAA 74

## (2) INFORMATION FOR SEQ ID NO: 445:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 73  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00473

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 445:

GATCTCTTTG TAGCCATCCT GTTAAATTTG TAAACAATCT AATTAAATGG CATCAGCACT 60  
 TTAACCAATG AAA 73

## (2) INFORMATION FOR SEQ ID NO: 446:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 71  
 (B) TYPE: nucleic acid

(C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00474  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 446:  
 GATCATGTCT GAATTATGTA TGAAAATTAT TCTATGTTTT TATAATAAAA ATAATATATC 60  
 AGACATCGAA A 71

(2) INFORMATION FOR SEQ ID NO: 447:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 69  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00475  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 447:  
 GATCTCTACC CACCCCATGC CTCTCCCNAG TCTTGATAC TAATAAAATG ATAAGCATTC 60  
 TGGTTCTCN 69

(2) INFORMATION FOR SEQ ID NO: 448:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 68  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00477  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 448:  
 GATCGTAATG TAAATTTCTT TTACCATGTA CAAGAATTAT TAAAATACAG GTACTTGACC 60  
 ACATTCTN 68

(2) INFORMATION FOR SEQ ID NO: 449:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 72  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00478  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 449:  
 GATCGGGCCC CGGGGCGCTG AGCCTGGGAC CCCACCCNGT GTTAATGAAA AATGAGTTTT 60  
 GGCAGCGCCA AA 72

(2) INFORMATION FOR SEQ ID NO: 450:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 64  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00479  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 450:  
 GATCCTTTTG TAATGACTTA CACTGGAAAT GCGAACATTT GCAGTAAAAA AATATATATA 60  
 TAAA 64

(2) INFORMATION FOR SEQ ID NO: 451:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 66  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00480  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 451:  
 GATCATGCAT TTAGATTAT ATTTTNNCCA NAAAATACAA GGTTATAATA AAATAAGAN 60  
 CTACCN 66

(2) INFORMATION FOR SEQ ID NO: 452:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 70  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00481  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 452:  
 GATCTCTATT GTAATCTCTA TTGGAGATTA CAATGATTAA ATCAATAAAT AACTGAAACT 60  
 TGAANATAAA 70

(2) INFORMATION FOR SEQ ID NO: 453:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 65  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00482  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 453:  
 GATCACTAAT TTTGCATCAG TAAAATGAAT TTTTAAAAA CCAATAAATC ATCAATTATT 60  
 AGAAA 65

## (2) INFORMATION FOR SEQ ID NO: 454:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 63
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00483

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 454:

GATCACAGTT GCGTCATTGT GTATTAAATA CTTGGAATAA ATCAAGCAGG TCTCAACGCC 60  
AAA 63

## (2) INFORMATION FOR SEQ ID NO: 455:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 68
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00484

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 455:

GATCATTAAAT TGTAAGCGC TTTGTAAAT TCACATTTAC AAAATAATAA AGTCAGTTCA 60  
AACCTAAA 68

## (2) INFORMATION FOR SEQ ID NO: 456:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 63
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00485

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 456:

GATCTGTGTC TGAGTCATCT TTGTATCTTG CTTAGCACCT ATCAATAAAT ACTTCTTGAA 60  
TGN 63

## (2) INFORMATION FOR SEQ ID NO: 457:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 62
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00486

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 457:

GATCATGGGA ATATGCAGAA TTTCCAATGT ATTTTAAAT ACAAATAAAA TTGTAATTTA 60

GN

62

## (2) INFORMATION FOR SEQ ID NO: 458:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 62
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00487

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 458:

GATCTAACAC TAACTGTATT GTTTTGTTCA CATCAAATAA ACATCTTCTG TGGACCAGGA 60  
AA 62

## (2) INFORMATION FOR SEQ ID NO: 459:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 61
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00488

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 459:

GATCTCGGCT CACTGCAATC TCTGCCTCCC GGGTTTCAAG CTTGTCCAGG NNNATCTCAA 60  
A 61

## (2) INFORMATION FOR SEQ ID NO: 460:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 61
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00489

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 460:

GATCAACCTG AGTTTTAAAA TACCTTTAAT AAATATNAGT NGAAAAAATG TCTACTTNA 60  
A 61

## (2) INFORMATION FOR SEQ ID NO: 461:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 61
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00491

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 461:  
 GATCAAACAC CCCACCCTCA CAAAAATGGC CACGTTGCAA TAAAAATTGT GGCATATTAC 60  
 N 61

(2) INFORMATION FOR SEQ ID NO: 462:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 86
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00493

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 462:  
 GATCTTTATT TTCCCTTTGT ATTCATTTTA AGCATCTAAA TAAATTGCTG TATTGTGCTT 60  
 AATGTAAATA TTTGCTTTAT TACAAA 86

(2) INFORMATION FOR SEQ ID NO: 463:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 66
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00494

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 463:  
 GATCTCTACT ACTGTTGATT TTGCCCTCGG AGCAAACTGA ATAAAGCAAC AAGATGAAAA 60  
 CTGAAA 66

(2) INFORMATION FOR SEQ ID NO: 464:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 70
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00495

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 464:  
 GATCAAAC TA GAACTCATAT GCCATACTAG ATATGGTTGT CAATAAACTT ATGACGTGAA 60  
 AAAAAAGAAA 70

(2) INFORMATION FOR SEQ ID NO: 465:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 57
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00496



(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 465:  
 GATCCAAAA GTGCGCATG CGAGTAGTCA AGTCGTACTC CGCCATCTTG CCAAAGN 57

(2) INFORMATION FOR SEQ ID NO: 466:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 65  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00497

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 466:  
 GATCTAAAGC TCTTTCGATT TTATACTGAT TAAATCAGTA CTGCAGTATT TGATTAACCA 60  
 AGAAA 65

(2) INFORMATION FOR SEQ ID NO: 467:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 55  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00498

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 467:  
 GATCTAAGGC AAGAGTTTCA GATTACTGT TGGAAATAGA CCCAACTCTT CATGN 55

(2) INFORMATION FOR SEQ ID NO: 468:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 56  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00500

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 468:  
 GATCATAAAT ATTAATGGNG AAAACACTGT AGTAATAAAT TTCNATATGC CAGAAA 56

(2) INFORMATION FOR SEQ ID NO: 469:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 52  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00503

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 469:  
 GATCTGTTCA GTGTCACCTCT GTACCCTCAA CATATATCCC TTGTGCGATA AA 52
- (2) INFORMATION FOR SEQ ID NO: 470:
- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 54
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
- (B) CLONE: HUMGS00504
- (ix) FEATURE:
- (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 470:  
 GATCCC CGGT NGGTTTTGTG CTCAAATAA AAAGCCTCAG TGACCCATGA GAAA 54
- (2) INFORMATION FOR SEQ ID NO: 471:
- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 57
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
- (B) CLONE: HUMGS00505
- (ix) FEATURE:
- (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 471:  
 GATCATCCGG TTATAGAGCA TAATTTGCCA ATAAAGCTTT TGGAAGCGGG AAAGAAA 57
- (2) INFORMATION FOR SEQ ID NO: 472:
- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 60
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
- (B) CLONE: HUMGS00506
- (ix) FEATURE:
- (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 472:  
 GATCCAGTGT TGGNATTCTT TGGTGTAAT AAACGTTTGG TTTTATTTAT NCAGGTTAAA 60
- (2) INFORMATION FOR SEQ ID NO: 473:
- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 51
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
- (B) CLONE: HUMGS00507
- (ix) FEATURE:
- (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 473:

GATCTCATT ATTGCCACAG ATGCACAAAA TAAATAACCC AAAATCACAA A

51

(2) INFORMATION FOR SEQ ID NO: 474:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 80
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00510

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 474:

GATCATATAT TTTGACAAAA TATATTTATA ACTACGTATT AAAAGAAAAA AATAAAATGA 60  
GTCATTATTT TAAAGGTAAA 80

(2) INFORMATION FOR SEQ ID NO: 475:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 77
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00511

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 475:

GATCCAAAAC TTTAATGTTG CACNTGTATT CCAAATAAAG GGTA AAAACA GAACCAAAGT 60  
TATAACTCCA ACACAAA 77

(2) INFORMATION FOR SEQ ID NO: 476:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 669
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00532

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 476:

GATCAAAAAG AAGGCTTAGA ATTCTGCAGT TAAGCTGAGG TTTAAACTAA AAANTGTTTC 60  
CTTGGGTCAG TGGTTTINAG GTCCAGTAGC TAGGCTTTTT TCTTTTGTCC TTCCTGTTGG 120  
AATGAAAAACA TTTCGATTTT CCTTCATCTG TGA CTGGTGC CATAGACACA GGTTTATAGT 180  
TTTAACTTAC AGTATTGTTT GAAATTTACC TGT TTTTNTT GTCAAACCTG AGCACTCCTC 240  
CTGCTGAAGT TTCTTATTTA ATTCCAGAGT ACTGTCCTCT ACTCTAAGGC ATTACTTTTA 300  
AGTGTATTAT GAAGGCAGTT TTCAAAGGAT ATGACCAGTT GGGGGTAATT CAAATTAAAA 360  
AGGAAAAGAT TTGTTTGGGA AGTAACTGGG TGTCTCTAAG AGGGAATTTT TAGGATGTCC 420  
AGTTTGGGAG GCTCTTTCCC CCCTCAAAT T GAGANGCTCC TTGGTTAATT CAGAGCTCCC 480  
ANGACTAGGC CCTGGGCTAA CCAANCATTN GGGNGGCCAA AGGTTAGGGA ACCATTNGNT 540  
ACCAAGCTTT TGNANCAGGG GGNTTNTNNT CATTTGGGTA ATAGGGCCCT TTT CANGCCT 600  
TTANGGGTAN GCTTTTTTTAN CCCNGAAACC NTTNNTNNTT TTGNAATTAA ACCGGAACCT 660  
TTTGNCAAA 669

## (2) INFORMATION FOR SEQ ID NO: 477:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 651  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00533

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 477:

```

GATCAACCTG GAGCTCTACG CCTCCTACGT TTACCTGTCC ATGTCTTACT ACTTTNACCG 60
CGATGATGTG GCTTTNAAGA ACTTTGCCAA ATACTTTCTT CACCAATCTC ATGAGGAGAG 120
GGAACATGCT GAGAAACTGA TGAAGCTGCA GAACCAACGA GGTGGCCGAA TCTTCCTTCA 180
GGATATCAAG AAACCAGACT GTGATGACTG GGAGAGCGGG CTGAATGCAA TGGAGTGTGC 240
ATTACATTTG GAAAAAATG TGAATCAGTC ACTACTGGAA CTGCACAAAC TGGCCACTGA 300
CAAAAATGAC CNCCATTTGT GTGACTTCAT TGAGACACAT TACCTGAATG AGCAGGTGAA 360
AGCCATCAAA GAATTGGGTG ACCACGTGAC CAACTTGCGC AAGATGGGAG CGCCCGANTC 420
TGGCTTNGGC GGAATATCTC TTTGACAAGC ACACNTGGG AGACAGTGNT AATGGAAGCT 480
TAAGCCTTGG GGNTAATTTN CCCCATANGC NGTTGGGTTG ACTTCNCTGG TCANCAGGGC 540
AGTTCANTGA ATGTTNGGGG TTNCCTTTAC CTTTNCNTTA GGTNGTCCNA AACAATCCNT 600
NAAAGTCTTT GNTTTGNACC NTTCCGNAA TAANGGATTN GGGCCNGAA A 651

```

## (2) INFORMATION FOR SEQ ID NO: 478:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 617  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00534

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 478:

```

GATCAAGAAA GTGGGGGGAA AAAAAACAA CGTTAAACC TCAATCCTCA GTAGGAAGGT 60
AGATTACATT AGGTGAAATT ATAGGTAATC TATGTATGTN CTAATGGGGT TGGAAAGAAC 120
CTTACAGAGC ATATTACCTG ATAACTGGA GTGGGTTTGG GAGAACAAAC TAATAGGATT 180
ATNGTNTCTC CTAGTTGGTA CCTGGGAGCA ATTGACATGC CCCCTTCAGA ACCTTAACTG 240
TTAGTAGCAG TGGCTGTAAC AACACAAACC AGTGACCAGA GATAACAGCT TTTNGGCCAA 300
GCTGGCCTGA CGGTATGGCT GCAGGANGTG ACTGAGCAGT AGCGGTACTC AGCCAGACCA 360
AGACGGAGAG GGGAGAGTCC ACAGCTTTCT GGAGCTAAGG CATTCTGGTG GTAGAAAAGT 420
GTGCCCNAAG CCTTCATNGG CGGGTTATAN GGTCTNAAGA TAAGTCTCCT CTTGTNTGGG 480
ATNCCATACT NTGCTAAATA ACCNNGGTAT TANCCGGGTT TTCCNTGTAA CNGCCTCTNG 540
GGAGGAANTG ACTNNGNAAG NTGGCACAGG TTTTAAAGCN TNAATGGAAA GGGNNAATC 600
CTNCTCAAAN TAGAACN 617

```

## (2) INFORMATION FOR SEQ ID NO: 479:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 569  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00535

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 479:

```

GATCTGTCAG CTGCTTAATT AATTGAACT TCTCTGTCAT TGATGTTGCA TTTCCAAGGA 60
GATAATCTCC TTCTTGGTGC CTAATTTTCT AGATGATAAT AGGCTAGTTT TGATTTCTTG 120
CTCATTTTCA GAATAACTTT CCAGGAAGAG ATGGCATTTA GAACTTCAGC TTTGGTGCTC 180
AGGTATAAAG CCAATTAAGG TACAATTGTA CCATAAAGGG AACAATCTGT TTCTGATTGC 240
ACAGTTTCTA ATTTTAAAAA CTGNNGTGGT TTGCATTTC AAAAAAGGCAA AGTTTACAGA 300
NCCATAAACA TTCTCAATTT TCTTTATGCT AGACATATAA ATTTATTTT CCAAACGTGA 360
ATAGGATTTG GGGTAAAAAG NTTGTCTCAG GTNCCTCTNC CCANTTTGCC AATGGGGNAA 420
AAAAAAGGCT TAATTTTTTA CCATNNTACT TNAATTTTC TAAAACCCNT GGTAACCCCC 480
CATTGGNACC CCNATTTTTC CANCTTTAAG GGTCTNGCAT NGGCNNGGCTT TTTNAATTNN 540
CCCTGGGGGG GTTTTNCCTG GGAGGGCCN 569

```

## (2) INFORMATION FOR SEQ ID NO: 480:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 556
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00536

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 480:

```

GATCCTGAGC NTGGTGCTGT GCTGTGGCAT CCGGAACAGC TCCGTGTACT GAGGCCCCGC 60
AGCTCTGGCC ACAGGGACCT CTGCAGTGCC CCCTAAGTGA CCCGGACACT TCCGAGGGGG 120
CCATCACC GC CTGTTNTATAT AACGTTTCCG GTATTACTCT GCTACACGTA GCCTTTTAC 180
TTTTGGGGTT TTGTTTTTGT TCTGAACTTT CCTGTTACCT TTTCAGGGCT GACGTCACAT 240
GTAGGTGGCG TGTATGAGTG GAGACGGGCC TGGGTCTTGG GGACTIONGAGG GCAAGGGGTC 300
CTTCTGCCCT GGGGTCCCAG GGTGCTCTGC CTGCTCAGCC AGGCCTNTCC TGGGAGCCAA 360
TNGNCCAAGA GACTCAGCTT GGNCAANTT GGGGGGGNTN TGTNCAACCA NGCCCGCINN 420
TCCTINTTNGG GTTGAAAAGT TTAACCTTGT TTCCCTTTCT NGCCCCGGTT TTGGAGAACC 480
CGANTTTTTT GGGGNAATTT TTTGCTTTNA ATNAACTTNT NCCTTTTTTTA AAAANGTGGG 540
TTTAAACTN TNAATN 556

```

## (2) INFORMATION FOR SEQ ID NO: 481:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 551
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00537

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 481:

```

GATCTACTGT CTTTGTTCAA AGGTCAAATA AAAACCTAGT CTCCTTTTAT TCTACTTTCT 60
ATTCTTAGCT AGAATGAAAC TCAGCATATA TACACTTCTG GACATAATAA TATTGAATAG 120
TAATTACCTT TACTAGATGA AAGAAATTTT CATTACAAAC TTAAATCATG TAAAAC TCAA 180
CAACTCAGAT TCCTGGACCT GGTGTCCTGG NTGGGTCCAA GGTGATTTTA CAGAAGNAAA 240
AANCAACTNA AGCATTCTGG TGGCAACATA GAGATTGTAG GCTGCTTCTA AGGAAGTNAT 300
TAACAATTNG GAAATTCNA AGTAGGATGA GAGTTAGTAA CTGGATACGA GTGAAGTTTA 360
TATCCAAGTT CAGNCTCAA GGCATNATTA TGATTNGCTT CTTCCCATGT CTNCCATGGN 420

```

CCTGCTTCTC AAAGTTTTTC TNATCNATCA CACTGCTGCC TAACTGCTCT GAGNATGCAT 480  
 GNGGTNTTCA ATTCAGCGTN NTNTNAATCN GGNNTANCTN TGGATTGGGA TGGGGATACG 540  
 GACNTTAAGG N 551

(2) INFORMATION FOR SEQ ID NO: 482:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 520
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00538

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 482:

GATCTTAATT TTGAAATTGA CATGAAAGTG TCATATCAGT AATCTGTGAA CCACCAGTCC 60  
 TTGGTACCTA TCAGAGGGTC AAAAATCACG ATTAAATATA ACCAAAAAAC TTTATAGTGA 120  
 CTGATTCAAA TTTGAATACT GGTTTTAGCT AATGTAGTAG TAATGAACTG GTTTGGGGGT 180  
 AAGATTTTCC TGGTATCTTA TTGCTGTAGA AATTTTCCTT TAACAGTTAC AGTGTTTTCT 240  
 TCCAAATCCT TCACTTCTCT GTCCTGGCTT GTAAAGAAAA CATCTGAGGA CTGAGGGGTC 300  
 ATATTTGAAT TGCTCTNTAT AATACCATAG ACTACTCATT GCTTAGACTN TACTAAGCTA 360  
 GAAATCACAA GAGCATAAGC NACTCTNAAA ATTNATATNA TGNGAATGTA AAAGGTACCT 420  
 GNCTGCAAAT ATCTNGANCN TCACTTTGGC TCAAGTNTCN NGTTAACCTG TNNNNTAATA 480  
 CNGNNATGTG AATTNGGCCA CCAGGTCCAT GNTTGGCAAA 520

(2) INFORMATION FOR SEQ ID NO: 483:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 517
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00539

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 483:

GATCATGCTT TTNGTGCCCTG TCACCAGGTC TCCCAAGTGC ACTCATCCAG GTCAGTGCTC 60  
 AGATGTGTTT AAGGAGACCC TATATTCAGG GAAGTTGCGT GAACACTGCA GTGGGGAGAA 120  
 TTGAGAATAG TCAGGCCCTAT CAGTCTCACA GAATCACCCC TCTACCTTTG ATATTCCACT 180  
 TAGCTGTAGA GTCCATCTGT TTGTCCATCT GCTGAAATGA GAAAAGAAAA ATTTATGCAC 240  
 TGATTTAAAA CAAACCAAAA AAAAAGAAAA AAACAAAAAA AAAAATCCNT CCTTTCTNGC 300  
 TGACCAAAAN TGTGCAGTTA ATNCTGGGNG CTTGAAANTG CAGTGGTGAA TNTGGACCAA 360  
 GCCTGTCTGT ATATCTGGTA GCTCTTTTCT GGCTTNGTTT TTNCTTACCA GTATTCNGGC 420  
 CTAACGTTTT GCTTCGGGNN TGGTAATATN NCCTNGNAAG NACANCNGTG GGTGTGTGAA 480  
 ATGGGTTNGG CAAAANGGAA NTTCCNGGGG TNTTGGN 517

(2) INFORMATION FOR SEQ ID NO: 484:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 515
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00540

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 484:

```

GATCTTCTGG CTCTACCACC ACAAGATATT ATCCTTGCAT CTNATGTGTT CTTTGAACCA 60
GAAGATTTTA AAGACATTTT GGCTACAATA TATTNTTAA TGCACAAGAA TCCCAAGGTC 120
CAATTGTGGT CTACTTATCA AGTTAGGAGT GCTGACTGGT CACTTGAAGC TTTACTCTAC 180
AAATGGGATA TGAAATGTGT CCACANNNT CTTGAGTCTT TTGATGCAGA CAAAGAAGAT 240
ATAGCAGAAT CTACNTTCC AGGAAGACAT ACAGTTGAAA TGCTGGTCAT TTCCTTTGCA 300
AAGNACAGTC TCTGAATNAT ACCNACAACC NGTNCTGGGA CAGTATCAAT ACTGATGAGC 360
AACCNGGCAC ACAAACATATG AGCAGACCAC TTCAGCTTGA GGAATGCAGT GGGTCTGAGG 420
ATGGTCAAGT CTGTTTGCCT TAGATTTTGN TGTCACTTGG CCACACTTGA AANCTNNTTT 480
GGAACAAAAN TTAAATTCG GGTTTCCAAG GTAAA 515

```

## (2) INFORMATION FOR SEQ ID NO: 485:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 510
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00541

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 485:

```

GATCTGCAGC TCTCAGAGGA CGACTGAGGC AGCCCATCTG GGGGGCTGT AGGGGCTGCC 60
GGGCTGGTGG CCAGTNTTTC CACCTCCCTG GCAGTCAGGC CTAGAGGCTG GCGTCTGTGC 120
AGTTGGGGGA GGCAGTAGAC ACGGGACAGG CTTTATNATT TATTTTTNAG CATGAAAGAC 180
CAAACGTATC GAGAGCTGGG CTGGGCTGGG CTGGTGTGGC TGCTGAAGCC CCACAGCTGT 240
GGGCTGCTGA AGTCAGCTCC GCGGGGGAGC TGCCCTGACG TCAGCAGACC GAGACCAGTC 300
CCAGTTCCAG GGGGAGGCCT GCAGGCNCTG GCCCTTCCAC CACCTNTGCC CTNCGTCTGC 360
AGANCTTGGT NCATCTGCAC CAGGCTCTGC TTNACTCNNN NANAGTNTTT GGAAATTTGT 420
TCTNNTCCTN TGAAAGTCAC ATTTGNTTNT AAAAATTTTG TGGNTTGAAT CGGAAACGGG 480
AAGNAATAAA GCGGTGGNG GNAGGGCAA 510

```

## (2) INFORMATION FOR SEQ ID NO: 486:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 507
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00542

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 486:

```

GATCCTTACA TCTGCCCAT CTGTGGTTAG TCAATGGCTT GCAATAAATG TGCAAACCTGC 60
ATCTATAGGA AACATTTTGT TGATTACGGA ATACTTTAGT TGATTGCTGA AAATATTGAA 120
AGGTCTTCAT TTTACAGTGA TGAGTACATA TGCATGTTTC GGGGACTTGG CCCTTCTGAT 180
GAGGGGCCCT CGGTACTCTG GATAACGAAG CTTGTGCAGA GTGGTAACCA TGCTTACACA 240
CTAAACTATA ATATAAAGGA AATGAAGCCA TGTTAATCTG AGAGCAGTGT CGCCATAGTT 300
GTGTTGTTTA CAATACTCTA TAAATGGGGT TCCTGTTGCC CTGTAATTAA CCTGCTGCCC 360
GTAGAGGCCT TTCCAGTTCC TTTTCTGTCC TTNCCCCTTT CTTAACACAA GCTCAAATTT 420
TCCTAACTNG GTTTTNNATT TGGAGNCTT TTAAAANGGN CCATTTTCAA TACCATNAAA 480
ANTAACCAGG GCTTTATAAT ANTAAA 507

```

## (2) INFORMATION FOR SEQ ID NO: 487:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 155
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00543

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 487:

```
GATCCACTAC CGGAAGAAGA AACAGCTCAT NAGGCTACGG AAACAGGCCG AGAAGAACGT 60
NGAGAAGAAA ATTGACAAAT ACACAGAGGT CCTCAAGACC CACGGACTCC TGGTCTTAGC 120
CCAATAAAGA CTGTTAATTC CTCAAAAAAA NGAAA 155
```

## (2) INFORMATION FOR SEQ ID NO: 488:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 499
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00544

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 488:

```
GATCTTAAAA ACTAATTCT AAGATGATTT CATCTTCTCA TAGTATAGAG TTTACTTTGT 60
ACACGTTTGA AACCAACTAC TGTAGAAGAT GAGGAATCTA TTGTAATTTT TTGCTTTATT 120
TTCATCTGCC AGTGGACTTA TTTGAAATTT TCACTTTAGT CAAATNATTT TTNGTATTAG 180
TTTTTGATGC AGACATAAAA ATAGCAATCA TTTTAAATNG TCAAAATTTT CAGATTACTG 240
GTAAAAATTA TTTGAAAACA AACTTATGGG TAATAAAGGC TAGTCAGAAC CNTATACCAT 300
AAAGTGTAAGT TACCATACAG ATTAATATGT AGCAAAANTG TATGCTTGAT ATTNCTCACC 360
NGTGNTAATG TTNCTGCNGT ATTCCAGCNG ACCAAACCAA TATTAAGNAT GCATCTGTAT 420
AAAATGGGNG CCTATNGGNT AATGGGAATN ATTNNGGTAA TNGGCCTNTA CCNGGNTGGT 480
NATAATGGNG CCCTNTGGN 499
```

## (2) INFORMATION FOR SEQ ID NO: 489:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 516
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00545

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 489:

```
GATCTACCCC GGACACGGGA GGCGCTACGC CAGGNCCGAC GGGAAGGTTT TCCAGTTTCT 60
TAATGCGAAA TGCGAGTCGG CTTTCCTTTC CAAGAGGAAT CCTCGGCAGA TAACTGGAC 120
TGCTCTCTAC AGAAGGAAGC ACAAAAAGGG ACAGTCGGAA GAAATTCAAA AGAAAAGAAC 180
CCGCCGAGCA GTCAAATTC AGAGGGCCAT TACTGGTGCA TCTTTTGCTG ATATAATGGC 240
CAAGAGGAAT CAGAAACCTG AAGTTAGAAA GGCTCAACGA GAACAAGCTA TCAGGGCTGC 300
TAAGGNAGCA AAANAGGGCT AAGCAAGCAT CTAAAAGGNC TTGCAATGG CTGCTTGCTA 360
```



AGGCACCTTC AAAGGGCAGC ACCTTAGGCN AAAAGGATTT GTNTAAGCCN TGTTGAAAAG 420  
 TTCCAGCTT CCCC GTNTTT TGGTTGGGAA NNGGNTAAAC CTTGGCAGGG TTTTGNTTTT 480  
 TTTAATTAAN AGGTTTGGGG TTTTAACTN TTTAAA 516

(2) INFORMATION FOR SEQ ID NO: 490:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 497
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00546

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 490:

GATCAAGCTG ACAGACCCNN CTCTGCTCTG ACCTGGAGGT CTCCACTCTG GTCAGCAAGT 60  
 ATCCAGACAT CAGGGATGAC CACATCGGTG CGCTNCTGGC TGTGCGTGGG GACGCCAGCC 120  
 GTGACATGAA GCAGACCATC ATGGAGACCC TGGAGCAGGG CCCAGCACAG GCCAGCCCCA 180  
 GCTACGTGCC CCTCTTCAAG GACATTGTGG TGCCAGCTG AACGTGGCCA AGCTGCTCAA 240  
 GTAGCCTCCG CGGNTGTCCT GCTCGCCCTC CACAGCTNGG TCCTGCTTTA GAACGCGGGC 300  
 AGTNATTGTC TCTTGGCACA CGTGTCCTTT TAGTGACGGC TGTNTTTAGG TGCANTGTNA 360  
 TGACNNGGTG TGCCTCGAGT GANGTCNGAG GGCACGTGCG GAGGCNGTAN TTTGCTGTAA 420  
 AGGCTGTGGG TTCAGNGTTT NCNGACAGCG TTNNTTGGGT GTTGTNTTTC AGNGGTGAAG 480  
 TGTNNGGGAA AGNGNCN 497

(2) INFORMATION FOR SEQ ID NO: 491:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 494
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00547

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 491:

GATCCAAGAA ACAATTTCTG ATAATTGTGT GGTGATTTN TCAAAAACAT CCTGTTCTTA 60  
 CTGTACAATG GCAAAAAAGC TTTTCCATGA CATGAATGTT AACTATAAAG TGGTGGAACT 120  
 GGACCTGCTT GAATATGGAA ACCAGTTCCA AGATGCTCTT TACAAAATGA CTGGTGAAAG 180  
 ANCTGTTCCA AGANTATTTG TCAATGGTAC TTTTATTGGA GGTGCAACTG AACTCATAG 240  
 GCTTCACAAA GAAGGAAAAAT TGCTCCCACT AGTTCATCAG TGTTATTTAA NNNNAAGTAA 300  
 GAGGAAAGAA TTTCAGTGAT GTTTATACTA ATAAGTTTGC TAGTACAGTG TCAGTTATTT 360  
 AAAGTGGTAA TGCCCGNTAA TGTCTTTTAA ATGTTTTGAG GGATGTTTTA AAATACATGC 420  
 NATTGCTCTT ACGGAGGAGG GNTGTAAAAA TTANTGGGCC AATAAATTGC GGGTGGGAAN 480  
 CCNTNTTCTT NAAA 494

(2) INFORMATION FOR SEQ ID NO: 492:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 489
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00548

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 492:

GATCTTGACG AGGCTGCGGT GTCTGCTGCT ATTCTCCGAG CTTGCAATG CCGCCTAAGG 60  
 ACGACAAGAA GAAGAAGGAC GCTGGAAAGT CGGCCAAGAA AGACAAAGAC CCAGTGAACA 120  
 AATCCGGGGG CAAGGCCAAA AAGAAGAAGT GGTCCAAAGG CAAAGTTCGG GACAAGCTCA 180  
 ATAACCTAGT CTTGTTTGAC AANGNTACCT ATGATAAACT CTTTAAGGAA GTTNCCAACT 240  
 ATANACTTAT AACCNAGCT GTGGTCTCTG AGAGACTGAA GATTGAGGGC TCCCTGGCCA 300  
 GGGCAGCCNT TCAGGAGCTC CTTANGTAAA GGNCTTATCA AACTGGTTTC AAAGCACTGA 360  
 GCTCANGTAA TTTACACCAG AANTACCANG GGTNGAGATG CTCCAGCTTG CTTGTGAAGA 420  
 TGCATGATTA GGTCCACCAG CTGTACATTT GGAAGAANTA NANCTTNTGT TAAATCAATG 480  
 GNGTNNAAA 489

## (2) INFORMATION FOR SEQ ID NO: 493:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 487  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00549

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 493:

GATCCTCTGN CACGGGATAA ATTTNCAGGN GAAGAGTGAG GTTGTCATGG CCTCAGCTAT 60  
 GCTTCCNGGC TCTCCCTCAA GAGTGCAACC TTGGCTAGAG AACTCACAGC TCTGGGAAAA 120  
 AGAGGAGCAG ACAGGGTTCC CTGGGCCCAG TCTCAGCCCA GCCACTGATG CTGGATGACC 180  
 TTGGCCTGAC CCTGGTCTGG TCTCANAATC ACTTTTCCCA TCTGTAAAT TGAGATGAAT 240  
 TTTNGTGTG AAAGTNCCTC CNNGAGCAGA TGTCTAGAA GGTTTTAGGA ATAGTGACAG 300  
 AGTCAGGNCA CCCNAAGGGC CATGGGGAGC CAGCTGACCT GCTTNGCCGA AGGATTTCTG 360  
 ACAGACTATC TTTGGGGATG TTTTCAAAGA AGGGATATAG GTTATTGACN TNNGGGCATT 420  
 TAAAGNAAAT TNTNTCTCGG GGATTAANTT TTTAGGANAA TNAAAGCTTT NGTGTCTANN 480  
 GGCAAGN 487

## (2) INFORMATION FOR SEQ ID NO: 494:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 481  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00551

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 494:

GATCCCCAGC TGCCACTGAA TCTGGCTGCC CTTCAGGCCC ACCTGGCCCA GGAGAACCGT 60  
 GTGGTGGCCT TCTTCAGCCT GGCTCTACTG CTTGCCCCAC TGGTGGAGAC GCTTATTCTA 120  
 CTGGACCGGC TGCTGTACCT TCAGGAACAG GGTTCATG CTGAGCTCCT GCCATCTTC 180  
 AGTCCTGAAC TCTCTCCAG AAACCTGGTT CTGGTGGCCA CCAAGATGCC CCTGGGTCAG 240  
 GCTCTTTNTG TTCTGGAGAC TGAAGACAGC TGATGCAGCC TGAGGAGACA TCTCAGACCC 300  
 CATCATCTGA AAGTGNCCAG AGAGCACAGT GGCAGAGTAC ATCTNATCCA GAGAAACAGC 360  
 ATCCTGCATC CTCCAGAGTC CTGGTTCCTT CAAGTTTCAT CNCTTTTNTC TCCTTTCCAT 420  
 GGGNTTATGT AAATACAATT GTAAAGTTTT AATTAAATTA AAAAATTGGG TTATCTGGAA 480  
 A 481

## (2) INFORMATION FOR SEQ ID NO: 495:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 472  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00552

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 495:

```
GATCTAAGCT CCAGGCACGC CTGAAGATGT GTTGCTACTC TNACATCCCG AGTTTCTGTC 60
CACACATTGC ATGCACAGCG CCCACACAT TGGATACTGT TGTTACGAT AATTTCTCCC 120
GTTTTCCAGA GCATTTAACA TAGCTTGGAG GCGTAAATG GCTCTGTATT TTAATAACAC 180
AGAAACATTT GAGCATTGTA TTTCTCGCAT CCCTTCTCGT GAGCNCTTAG ACCTTTTNC 240
ATTTTAGTCG GATTTTGTTT TGGAATTTTG CTTTNGTATG AACACTCAGC AGAAAAGTAC 300
TTACTTCTNG CCAGTTATCT ATTAACCAA ACCNTTGATT TGTAGTTTAA AAGNTTAACC 360
GNCAAAGTTC TNTNCATAAC TGCCTTGGCC AGTNNGGGGT NGTNCCGGTN CTGGTTAATN 420
GCCTGTGGCN TTTTNGGTGG TTTGTGNTTG GTNTTTACNT GNGCANTTAA GN 472
```

## (2) INFORMATION FOR SEQ ID NO: 496:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 461  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00553

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 496:

```
GATCAACCAA TTTNCTAAA AGTTCAGTCG AAAGCTTTTA AGTATAGCTT CCTCCCTTGA 60
AAAAAAATGT AAACATATGAC TGCTGAGTGA TAAAACACTG TGGTGTGAAA GTNTCATCTT 120
CACTGCCAAT CAGGCAAAGA CCGGAAAGAT TTGCATTTTA TTATGTCTGT CTTATCATGC 180
AATGGAAATN ATGCTTTTNG TAAGTATGCA TCTTACCAAT GATGTAACGG TTTAATACCN 240
TTGAATGTTT TAATAACCAA GTNGCTGCTG AACTTATACT AAATCAGGGG CCAAAAAACT 300
NGCTCTNATC NNCTCAAATN GTATNCNATA TCCATTAATG TATCAGTTAT NCCAAAGCCT 360
TCAGGTGGAG GGGTTTACCA CCNTCCTAGG TCGTTCAACC AGGTTTTGTG AGGAATGCAT 420
TCAAAGTGGC TNTATAAAAG ANGATTTTCT TTAGCATGAA A 461
```

## (2) INFORMATION FOR SEQ ID NO: 497:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 459  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00554

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 497:

```
GATCCCAAAA TTCCACTTTT CAACACAGAT GTGGACAACC TAGAAGGGAA GACACCACCA 60
GTTTTTNCCTT CTAAAGGCAA ATACAGGGCT CTGAAAATGG ATTTTCCTCT ACCCCCTTCT 120
```

```

ACTTACGNCA CCATGGCCAT TCGAGAAGTG CTAAAAATGG ATACCAGTAT CAAGAACCAG 180
ACGCAGCTGA ATACAACCTG GCTTCGCTGA GCAGTACCTT GTCCACAGAT TAGAAAACGT 240
ACACAAGTGT TTGCTTCCTG GCTCCCTGTG CATTTTTGTN TTAGTTCAGA CTCATATATG 300
GATTTCAAAT CTTTGTAATA AAAATTATTT GTATTTTAA GTNTTTATTA GCTTAAAGAA 360
ATAATTNGCA ATATTNGTAC ATGTACACAA AATNCNGGAG GTTCTTANTT TTAGCTCAGG 420
NTATAAATNA GTCAAATNCN NNGGTNNNGG NTNNGNTGN 459

```

## (2) INFORMATION FOR SEQ ID NO: 498:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 481
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00555

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 498:

```

GATCCAGCAG AGAAGGATGA AAAGGGCATG CCTGTGACAG CTCGTGTGGT GTTTGT TTTT 60
GGTCCTGATA AGAAGCTGAA GCTGTCTATC CTCTACCCAG CTACCACTGG CAGGAAC TTT 120
GATGAGATTC TCAGGGTAGT CATCTCTCTC CAGCTGACAG CAGAAAAAAG GGTTGCCACC 180
CCAGTTGATT GGAAGGATGG GGATAGTGTG ATGGTCCTTC CAACCATCCC TGAAGAAGAA 240
GCCAAAAAAC TTTTCCCGAA AGGAGTCTTC ACCAAAGAGC TCCCATCTGG CAAGAAATAC 300
CTCCGCTACA CACCCAGCC TTAAGTCTCT TGGAGAAGCT GGTGCTGTNA GCCAGAGGAT 360
GTCAGCTGCC AATTGTGTTT TCCTGCAGCA ATTCCATAAA CACATCCTGG GTGTCATCAC 420
AGCCAAGTTT TTTANGGTTN CTATACCAAT GGGTTTATTT AAATGAAAT GGGCACTTAA 480
A 481

```

## (2) INFORMATION FOR SEQ ID NO: 499:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 453
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00556

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 499:

```

GATCCAGATG CAGAGGCCAG GATGTGGGCC CAGCCCTGTG CCAGGAGGCT GGCTGGAATA 60
AAGGTACAGA TAGAGGCCTC ACCCCCTCTG GGACCACTGG CACTCAGGGT GTTTGCAGCC 120
TCAGAGCCCA CCTGCCCCCA GGGCCACAGC TGCATCTCCT GCCCTGCTGT CATTACAGGG 180
ATGGGCAGGC TGGCATGGGG GCACCCGCTG CCCCTGCCTG GNTGTTGCTG TGTATTCTCTG 240
CCGGCCAGGG GCACTGCCAG GACCACGCCT CCNTTTTNAT ATCCNGATTC TTAAGTTCTG 300
CTATTGTGGT ATTCTGGTGG AGAAAAAAGA CCGNGTGGCT GTTTTTGAAC TGCCTGGAAC 360
CTAAGACCCT GAATTC TTTT CCCCCAAGG GAAAATCTAT ATGGAAACAT TTATTTAAAT 420
ACAGGATGAA GTAATTAAAA GNTTTAATTC AAA 453

```

## (2) INFORMATION FOR SEQ ID NO: 500:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 446
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00557

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 500:

```

GATCAAAGTT GGCAAGGTGC GGAAGTCGAGA CATGGGCGGC TACAGACCAC AACCGACTTC 60
ATCAAGTCTG TCATCGGTCA CCTGCAGACT AAAGGGAGCT AGAGCCCTTT ATTTCTTCCA 120
ACCTTGCAAG GACCACACTN CCCATACNT TCAGTGCAGT GTACCAGGGA AGAGCCTTGT 180
GCCTCTAAGC AGTGGACCAT GGTCACCTTG CTGGGTAGAG CCTAGGTTGT CCTTGGGCCG 240
GCTTCCTTAG GGGACAGACT NTTGGGTGGT GATGGGGATT GTAGGATGGA GCCAGGCACA 300
TGGATGATGA TGATTCTCCC NCACAGGTTT GAACCTCTGA CATGGGTGGC TATGCTACTN 360
GCNATGCTTA NTGAGGNTGT CATTGCTGCT TTNCNAACC ATAGGCCTGT CATACNNTGT 420
AAGNGTCAA TAAGGACATG ACCAAA 446

```

## (2) INFORMATION FOR SEQ ID NO: 501:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 434  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00558

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 501:

```

GATCCAATTC AGGTTAGGCT TGTTTGATTT TTTTTCAG AAAATGTATT CCATAAAGTT 60
TGTAAGTAGA CCAGACGGGT GTACTAAGAA TCATTCATGA GTAAATGTGT GTTGAATATC 120
TACCCTTGAC CTTTTTTTGA GAAATAGAGT AAACACAGTC CCTGTAGTCT GACAGCTAAT 180
GGGAGAGAG GGTAGACTTT TCATCGAATT AAATTTCTAC ATGCACCTTT CCCCAGAAA 240
TCTTACTCAT GGCTGGTCTC AAGTAAGTCT TTATTGAAAA ATATNGACAT ATCTNCTTCC 300
TCTTCCTTCT CCTCACTGTC TTCCTTTTAG TAGTTAGGCA GAGTTAATAG GTAAGAAAAA 360
TTATCTGCAT TTATGTGTAG TTTGTAATCT ACTAAAGGGG TTCTAGAATA AATGTNGNCA 420
TNTNGTAACN GAAA 434

```

## (2) INFORMATION FOR SEQ ID NO: 502:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 430  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00560

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 502:

```

GATCAAACAG GTTCAAAGTA AAACGTAAAT TTTACATTT NTTTTAAAGA ACTCTTAAAG 60
TGTAACAGTT ACGCCATACT TCATAAGTGG TAAAGAAAGG TATAAAATTT GGAAACATTT 120
TGTTGGGCAT AGTAGTGATT GGGTGAAAAG GATAAATTAT ATCAAATGA GAATGTNCTG 180
TAATTGGAAG TAGGGAGCTA AAGGATGTTT CTTTCAGTTT AGTAGAACTG GAACGTTTTA 240
CTATTAAACA TGGCTTTTAT AAATNCATGG TCCAATAATT TTATTCAGTG TTAGTATTTA 300
ATTCACTGTC AGCTTATTAA TGTTTTCTGT ACCCATTAAT GAATTTTAAA TTACAAAAAA 360
TTGTCTAGCA GCTTCCAGTT TAANAAATGG AACCTAGGCC ATTAAATTA AATTTGGTAA 420
ATTTTTTAAA 430

```

## (2) INFORMATION FOR SEQ ID NO: 503:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 428
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00561

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 503:

```

GATCCTAAAT GTGTTGCTGA AATCAGGCAG CCCGAGCCTC TGGTCTCTCC AGAGAGCCCCG 60
TNTTCACATT TGTNTATTCC TCAGCACTCA CCCGAACTG AACAGATGGG GAGTGGTCTT 120
GATTGTCAAG ATAAACTGG TGAAGAAAGC TAAATGCTGA GAAACTGAGC ATCTATTGTG 180
GTGTTTAAGC TTAGCTGGGT CCTTTCTAGT TTGTTTTTAC AGCTTACTAG GTGAAGTAGT 240
TTGCACTATT TTNGCAATAA ATTCATGGAA AACCTAACAG TTACTNGTNT NGTTTCTNAC 300
TGTGTGTATA TAANCTAATA CTAAANGTNT GGCATAGTGT TTNTGCACCT NCNTACATAA 360
CCNCTAACAT GCACAGAATG CTGGTAAATN TGATAAANTA TGANGTGANT GATGATNNGA 420
TANAGTGN 428

```

## (2) INFORMATION FOR SEQ ID NO: 504:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 422
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00562

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 504:

```

GATCCTCACC CTCCTGAGGC CCAGTGGGGA AGAATGAACA TGGCTTCATC CAGGTAACT 60
NATGCTGCCA TTTGCCCAGC CTCTTCCATC CCAGCCCTGT CAGTNAGCCC AGGTCTGGTG 120
CAACTNCTGC AGGATGCCTG TAGTAGGGAA CTCTGGAAGT GTATTGGGCT GAGGTGGGAT 180
TTTCCCTCCC CACAGTGCAC TGAGCAATGG AGGGTGGTGA GGGAGCCATG CTGCTGAATT 240
CTGGTTGGCA TTTCCCCATT ATGTAAAATG GGGTGTGGG TAGGGCAGAC TCTGCTTGGG 300
TTTGGTTGTA AGATAAACCT GGAGGAGAAG CACAGTTGTC CCATTGAATT ATTTGAGCAA 360
AAACTACTGT AAATAACTTT TTTGGGCTNT TGTCAAATAA AATTTTTTTT TGTNTNTTTA 420
AA 422

```

## (2) INFORMATION FOR SEQ ID NO: 505:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 417
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00564

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 505:

```

GATCTGATTC AGAAGGGCGT CATCCAACAC AAAGAGAAAT GCAACCAATG AAGAATCAAG 60
CCACTGAGGC AGGGCAGAGG GACCTTTGAT AGGCTACGAT ACTATTTTCC TGTGCATCAC 120
ACTTAACTCA TCTAACTNNT TCCCCGACA CCCTCCACCT CTAGTTGTTA CTAAGTAGCT 180

```

GCAGTAGGCA TTGCTGGGGA AGAAACAAAC ACACACCAAA CAGTACTGCT ACTTAGTTTC 240  
 TAAGGCTGCA CAGGGAAGGG AAAGACTGGG CTTTGGACAA TCTAGAGGTA ATTTATATCC 300  
 GCCCCAGGT GGAGCAACAT GCGATTNTGG AGGCACGGGG GTAAGTGAAA GTGAGTACAT 360  
 ATAGTNTTTC TGGTTTCTGG GGATAACCCA TCAATAAAAG CTGCTTCCTC TNGTAAA 417

(2) INFORMATION FOR SEQ ID NO: 506:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 421
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00565

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 506:

GATCTTCTTT ATAATTCTAC TTTGAGTGCT GTCTCCATGT TTGATGTATC TNAGCAGGTT 60  
 GCTCCACAGG TAGCTCTAGG AGGGCTGGCA ACTTAGAGGT GGGGAGCAGA GAATTCTCTT 120  
 ATCCAACATC AACATCTTGG TCAGATTTGA ACTCTTCAAT CTCTTGCACT CAAAGCTTGT 180  
 TAAGATAGTT AAGCGTGCAT AAGTTAACTT CCAATTTACA TACTCTGCTT AGAATTTGGG 240  
 GGAAATTTA GAAATATAAT TGACAGGATT ATTGGAAATT TGTTATAATG AATGAAACAT 300  
 TTTGTCATAT AAGATTCNNT ATTTACTTCT TATACATTTG ATAAAGTAAG GCATGGTTGT 360  
 GGGTAAANCT GGGTTTATTT TTNGTTCCAC AAGTTAAATA AAATCCATAA AACCTTGGA 420  
 A 421

(2) INFORMATION FOR SEQ ID NO: 507:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 413
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00567

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 507:

GATCCCANAC TGGTCNTTGA ACAGACAGAA GGANGTAAAG GNTGGAAACT ACAGCCAGGT 60  
 GTGTACTGAA ATNAGGGCAG GATTAGAGGA AGGGTGGAGG GTCCTAACAG AATTGGGCAT 120  
 AGGAGGTCAG GGGATAAAAC ATCCCTTGCC CCCTCCTCTG AATCCAGGNC CTAGCCAATG 180  
 GNCTGGACAA CAAGCTCCGT GAAGACCTGG AGCGACTNAA GAAGATTCGG GCCCATAGAG 240  
 GGCTGCGTCA CTTCTGGGGG TGAGTGGGGG GTCTCATCTC CCTGCCTACC TCGACTCAGC 300  
 ATTCTCTCTA CTCGNTCTTC TTNTTTTCCC AACCTTTTTG TTTCTTGCTT GTNCATGACC 360  
 TNGTGACTTN TTNNTNTTTT TACCNTGCAN GCCTTTNGTN GTCCTAGGGN CAN 413

(2) INFORMATION FOR SEQ ID NO: 508:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 407
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00568

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 508:

```

GATCTNAGGG TGAACCACTT CATTCTGCAG GGTTCCTCCCT CCCACCTTAA AGAAGTTCCC 60
CTTATGTGGG TTGCCTGGTG AATGGCCTTC CTTCCCGCCA NAGGGCTTGT AAACAGACCG 120
GAGAGGACAG TGGATTGTTT ATACTCCAGT GTACATAGTG TAATGTAGCG TGTTTACATG 180
TGTAGCCTAT GTTGTGGTCC ATCAGCCCCCT CACATTCCTA GGGGTTTNAG ATGCTGTAGG 240
TGGTATGTGA CACCAAAGCC ACCTCTGTNA TTTGTNGTGA TGTCTTTNCT TGGCAAAAGC 300
CTTGTGTATA TTTGTATATT ACACATTGTG ACAGAATTTN GGAAGATTTT CNAGTCTAGT 360
TGCCAAATCT GGCTCCTTTA CCAAAGGAN ATTACCCTTG NGGNAAA 407

```

(2) INFORMATION FOR SEQ ID NO: 509:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 402
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00569

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 509:

```

GATCAAACAG TTTCTGGAGT GTGCCCAGAA CCAGGGTGAC ATCAAGCTCT GTGAGGGTTT 60
CAATGAGGTG CTGCANCACT GCCGACTTGC AAACGGATTG GCCTAATGAA GAAGTTCAAC 120
CTGGAGAGAT GGAAAATCAG CTCTCATAAC TANGTTAATT TAGTATAAAA NTAGAATTGA 180
TAGTGAGGGT ATAAAGTGTA ACCATCAGTT AAACCTCTCC TGTCATTCCT GGCTTCCTTG 240
CTTCAGANTT GAAATGGAAG TGGGGGTGTC CCTACTCTGT AGAATCTGGG NCTGGGCAAA 300
TGTTTGTGTT GCCTCCTTAA ACTAGCTGTT ATGTTATGAT TTTTNTTCTT TGTGAGTTAA 360
TTAGGAATAA AGTCATTTTC TTTCCAAGGG TATGGTTCCA AA 402

```

(2) INFORMATION FOR SEQ ID NO: 510:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 396
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00571

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 510:

```

GATCATGAGA AGGAATGGAA ACTAGGCCGG TGCATTTTAC GGTTCCCTGA GATTCTGCAA 60
AAGATTTTAG ATGACTTATT TCTCCACACT CTCTGTGATT ATATATATGA GCTGGCAACT 120
GCTTTCACAG AGTTCTATGA TAGCTGCTAC TGTGTGGAGA AAGATAGACA GACTGGAAAA 180
ATATTGAAGG TGAACATGTG GCGTATNCTG CTATGTGAAG NAGTAGCTGC TGTCATGGCC 240
AAGGGGTTTG ATATCCTGGG AATAAAACCT GTCCAAAGNA TGTAATCCTT CATAGGTTTG 300
ACACTGTGTG TTTTACCCAA GTGGCCATTG GNACTGTTTG CTTTTTTACA ATCATGTGGG 360
CACAAGCNTA AGAAAGGAAA TTNGCAACCA GGGAAA 396

```

(2) INFORMATION FOR SEQ ID NO: 511:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 384
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:



(B) CLONE: HUMGS00572

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 511:

```
GATCCAATCA GATGCAGAGA ATGTGGATAC AGAATAATGT ACAAGAAAAG GACTAAAAGA 60
TTGGNCGTTT TTNATGCTCG ATGAATGCTG GGAATTCAGA GGAATGTNTT CACTTATACT 120
TGGATTGCT CTCTTCCCAT TTCTGATTGT NGTATAGCTT TCGATTTTNC TTACAGTAGT 180
TCCCCCTTAT CTNCGGGAGA TACATTCCAA GGCCCCCAGT GAACTCCTGA AACCTCAAAC 240
AGTACCAAAC CTTTATACAC TGTTTTTTCC ATATATATAT ACCTATGATA AAGTATAATG 300
TATANNTTAA GCATAGCAAG AGATAATAAT AATGTNATAG NCCATTGNTA CNANCTATAN 360
TAANNGGTTA TGTGANTGTG AAAA 384
```

(2) INFORMATION FOR SEQ ID NO: 512:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 383  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00573

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 512:

```
GATCAGAGCA AAACATGCAG AGCCCTTAGC AGAAACCCAC TTTAATGCAT TTTCTTCATA 60
TCCCTAAAGT TCCTTAAAAA TATGTGACAA TGCATCAGGA AGAGGAGAAC TGAAGAGTAG 120
AAGTTCCCTT GCAGATTTTT TTATCAGTGA CATGTAATGA GCAATTCACA GATGAGCGCA 180
GGCAGAGCTC TGTGTGCCGT GTACATATGG ACCGTGCTAT GATGTGTCTC ACATTGGATG 240
ATATTCCACT TTGGGAATTT TAGTATTTGT ATATAGAAAA TGGGTTTAAAT AACTCACCAT 300
GGTTTTNATT NGTCTTATAT TCGTTATTTT TTAAACTCT NGTATGTGTT TTTATAATAA 360
ANAATAAAAG TAAGCCATGG AAA 383
```

(2) INFORMATION FOR SEQ ID NO: 513:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 381  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00574

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 513:

```
GATCCAAAAT CATACTGTCA AGACCATCAA ACAAACAAA GAAGCTTAAG TGAACAAAGC 60
ACAGGGAAAA GTTGTTTTTT CACTCGTTCA TTTTGTCATC TGCTTCTAGA TGCTGCAATC 120
AAGAAGTAGC AAATGCCCAA GTTGCCATAG TGTTTGACAGG AAAAAAAGAG AAAAAATAAT 180
AAAAATAAGG AAGGAGCAAT GCCAAAAATT GAAGGAAATA TTATATAATT AANGCAAGAA 240
GNTATCTATC CATTGAGNGA AACAATTTTT ATATTATTTG CTTTGTAGCNG CAAAGCATTG 300
GGAATTCTGA GATTGTTATA GCACTAAGAA GGTTTTNATT CTGTGTACAC ACTGGAAAAT 360
TAAATTTCTG GGTAAAGGAA A 381
```

(2) INFORMATION FOR SEQ ID NO: 514:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 381  
 (B) TYPE: nucleic acid

(C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00575  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 514:

```

GATCCCCCTG GAAGAGGGAC TCCAATGGGC ATGCCCCCTC CGGGAATGCG GCCTCCTCCC 60
CCTGGNATGC NAGGCNTTCT TTNACCCTTG GCCACAGAGT ATGGAAGTAG CTCCGCAGAG 120
GCGTGGGCTC GATTCCTCAG GGCCACGTTA CCACAGACCT GTTTGTTTCT NATGCTGTTG 180
TTCGTGGAGT CTCATGGGAT TGTNTGGTTT CCNTTACAGG GCCCNCTCCC CNGGGAATGC 240
GCCCACCAAG GCCNTAGACT CATCTTGGCC NTCCTCAGCT CCCTGCCTGT TTCCGGTAAG 300
GCTGTACATA GTNCTTTTAT CTNCTTGTGG CCTATGAAAC TGGTTTATAA TAAACTNTTA 360
AGAGAACATT ATAATTGCAA A 381

```

(2) INFORMATION FOR SEQ ID NO: 515:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 377  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00576  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 515:

```

GATCTGCGTG GGGCTGGTGG TGGTTGGTGT CCTGCTCATC ATCCTGATTG TNCTGCTGGT 60
CGTCTTTCTC CCTCAGAGCA GTGACAGCAG TAGTGCCCCA CGGACCCAGG ATGCAGGCAT 120
TGCCTCAGGG CCTGGGAACT GACCCAGCTG GTCCTGAAGG AGAAGCCAAA TGGCTGCACT 180
GGCCGATTCT GGTCTCCAGA GGACCTTGGT GTTTGCTCTC CCTTGACCCA CCCCAGTNAG 240
TGCCAAAGGG CAGCCCCAAC ATGTGCACCC CTGCATTTC TGTGATGCCA CAGACTGGCC 300
CTTGAGGGCA GCCTGCTGTA CTGGCCATGC TGGGCCAGCC NCACCTGGAG CTCAGTAAAA 360
ACTGCTGTTT GATTAAA 377

```

(2) INFORMATION FOR SEQ ID NO: 516:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 375  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00577  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 516:

```

GATCACACCA GTTCAGAGAG CTACACTTTA TGGGTAACAG TTTCACCTGT NATACAGTTC 60
CCTAGAACAT TTTCCCAAAA GTAGTGAAGT GCAAAGTGCT TAGGTTTGAC ATTTATTGTA 120
GCAGAACAGT AATATCACAG TATGGGACAA AGGTTTACAC TTTGCAGGGT ATTCTTTGGG 180
GGAATGTAA ATACTGTAAT AAAAACATGT TCAATCATGG TAAAATGTTC AACTNGTTAA 240
ANTTACAAAT GGNCAAAAAA NATTTTTTTC CTNATATATN GCCTAANTAC CAAATGAAGN 300
GCTTAANCTT AAGNTTCAAT GTGAAANCGA GTAAATNTGT TCCTAAATTT GCAGNAATAA 360
NAGATANCCN GTANN 375

```

(2) INFORMATION FOR SEQ ID NO: 517:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 374  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00578

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 517:

```
GATCCATGTA CTGTCATGTT TTTTTCAGG AACAAAGCACA TCATGATTGA TTTGGGGACT 60
GGCAACAACA ACAAGATTAA CTGGGCCATG GAGGACAAGC AGGAGATGGT GGACATCATC 120
GAGACGGTGT ACCGCGGGGC CCGCAAAGGC CGCGGCCTGG TGGTGTCCCC CAAGGACTAC 180
TCCACCAAGT ACCGCTACTG AGGCGCCTCA GTCTGCGCGG ATAAATGTCG TGGAGCCCTT 240
TTTGTATGGA AACGTTTTAA GCTATTTAAA GCCTTTGGAA AATACAGGAN GTNCAGGGCT 300
GGAGCACCTC TGAGATGGAA TTGATAACAT GGTCTTAACT CACCGAAATA AACAAAGCAG 360
TNGTGAGNGG NAAA 374
```

(2) INFORMATION FOR SEQ ID NO: 518:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 374  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00579

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 518:

```
GATCTCACCG TGGGTCCGAT TAGCCTTTNC TCTGCCTTGC TTGCTTGAGC TTCAGCGNAA 60
TTCGAAATGG CTGGCGGTAA GGCTGGAAAG GACTCCGGAA AGGCCAAGAC AAAGGCGGTT 120
TCCCGCTCGC AGAGAGCCGG CTTGCAGTTC CCAGTGGGCC GTATTCATCG ACACCTAAAA 180
TCTAGGACGA CCAGTCATGG ACGTGTGGGC GCGACTNCCG CTGTGTACAG CGCANCATCC 240
TGGAGTACCT NACCGCAGAG GTACTTNAAC TNGGCAGGNA AATTGCATCA AAANGACTTA 300
AAGGTNAAAN GGTTTTACCC CTNGGTNANT TGCAACTTTG GTTATTNNGN TGGGGGATGA 360
AGGNTTTGGG TTNN 374
```

(2) INFORMATION FOR SEQ ID NO: 519:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 372  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00580

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 519:

```
GATCAGAGAG ATTAGGATTG TATTTTGACA TAGGATTTGG AACCCATCTA AATGTTGAAG 60
TTCCCTGAGA CAGCTCTCCA GCTGCTNNGC CTGCGCCAGG GGCTANGCAG CCCCTAATGA 120
GAGGCTCTGC TCCCTTTCCC ACCTCGCCAA TGTTGTTGTT GCTGCCTTTT TGATTTGTAT 180
CCTCTGTTAT AGACATTTTT NAAAAACGAT TTCCTCTTTC ATTGTGCACA AGTGCTGAGA 240
GTCTNAGGCC CCATTTCTGC TGTGTATATA TATCCTGACT CGGGGCTTTT ATTCAGCAAA 300
CTGTTTCATTC TTCTGTCAGA CAATGTCATA TTCAACTCTG TTCATATTAA ACCACTTGTN 360
```

AAGCANTNNA AA

372

## (2) INFORMATION FOR SEQ ID NO: 520:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 371
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00581

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 520:

```
GATCTGGTCG CTGCCCCAGG GGGACTGATG GGCAGNGTCG CCCCTGTGGC TGGACTGTNA 60
CCATCCCTGA TGGGGCCTGA CCGCGGGAGC TGAGGAAGCG CCGCTCCACC GTCTGCCCTC 120
CAAGGACCCG CATGGAGGCA GTGGGCTGGC AGCTTCCTGC TGCTCCGTGT NAGAGTCAAA 180
GCACAAATCC TCAGGACGGG CTCAAGGGCC AGGGCAGCCG AGGGAAGTNC AGGTGGGGAC 240
CACGTCTTCC TGAGGTTGGT GCCACTGCTT GGNACCGTTT GCAGTGGGGT GGCCTCCCCT 300
CTGTTTGCNT GGTGNAGNNA GCGTGGCGTG GGGACGTGAC TGAATAAAGC ACCATGGGTG 360
ATGTGTTGAA A 371
```

## (2) INFORMATION FOR SEQ ID NO: 521:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 382
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00582

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 521:

```
GATCTNTGGG ACGTCAGCTG CTGAGAGGAG CAAGCGGTAG TACCACCCCT TAGTTGAGGG 60
AGTCAGCACA GTCCTTTCTG CAGCTTCTAA CCCAGGACCA TGAATCAGG TGCCTAGAGA 120
AGCCAGGCAG CNNAAGGACA AGGAATGCTG GGGGCTGTGG GAACAGGAAT GCAGATACCC 180
TTTGAAGGAG CATTCTGCT AAAAGAAGCT GAAATGTAG ACCTATGTGA AGTGCTCTGA 240
TTTCTAAATA TTGTGAAGGT TAAGAAAAAC ATANATTTTN GGGTCTATGG GCTAGGATTN 300
AGNCCCACAG TTGGCCANTT TNTAGNGGT NCCCAATGG ANTGGTTAAA CCNNNGGTTT 360
NGNTTCCTAG CCTAGGGGTA AA 382
```

## (2) INFORMATION FOR SEQ ID NO: 522:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 382
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00583

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 522:

```
GATCAAGAAC AATGCCTCCA CTGACTATNA CCTATCTGAC AAGAGCATCA ACCCTCTGGN 60
TGGCTTTNTC CACTATGGTG AAGTGACCAA TGACTTTNTC ATGCTGAAAG GCTGTGTGGT 120
GGGAACCAAG AAGCGGGTGC TCACCCTCCG CAAGTCCTTG CTGGTGCAGA CGAAGCGGCG 180
```

GGCTCTGGAG AAGATTGACC TTAAGTTCAT TGACACCACC TCCAAGTTTG GCCATGGCCG 240  
 NTTCCAGACC ATGGAGGAGA AGAAAGCATT CATGGGACCA CTGAAGAAAG ACCGAATTGC 300  
 ANAGNGAAGA AGGAGCTTAA TGCCAGGNAC AGATTTTGCA GTTGGTGGNN GTCTCAATTA 360  
 AGNGTTATTT NNCCACTGGA AA 382

(2) INFORMATION FOR SEQ ID NO: 523:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 367
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00584

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 523:

GATCTCCAAG CNAACTCAGC CTCCANCCAA NCTCCCTGTG GGTCTAGCC ACAAGCTCTC 60  
 CAACAATTAC TATTGCACTC GCAATGGCCG CCGGGAATCT NTGCCCCCTT CCATCATCAT 120  
 CNCGTCGCAG AAGTCGCTGG TGTCAGGCAA GCCAGCAGAG AGCTCTGCTG TAGCTGCCAC 180  
 TGAGAAGAAG NCGGTGACTC CAGCTCCTCC CATAAAGAGG TGGGAGCTGT CCTCGGACCA 240  
 GCCTTACCNG TNACACTGCA CCCTNACGGC ACCNGACTAC TTTGCCTGCT TGGATTTCCT 300  
 CCAGGGGAAT GTGACCTAAT TTATGNCAA TACGTAGAGT CAGGTATCAC TTCTAGTTTA 360  
 CTNTAAA 367

(2) INFORMATION FOR SEQ ID NO: 524:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 365
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00585

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 524:

GATCAAGAGG AAAGAGAACG TAACAACCAG AACCCCTGGA CATTGAGCG AATAGCCACT 60  
 GCCAACATGC TGGGCATACG GAAAGTACTG AGCCCATATN ACTTGACCCA CAAGGGGAAA 120  
 TACTGGGGCA AGTTCTACAT GCCCAAACGT GTGTAGTGAG TGTAGGAGAT AACTGTATAT 180  
 AGGCTACTGA AAGAAGGATT CTGCATTTCT ATTCCCCTCA GCCTACCCAC TGAAGTCTTT 240  
 GGGTAGCTCT TAAGCCATAA CTAAGGAGCA GCATTGAGT AGATTTCTGA AAAACAATGT 300  
 TATTTGTTGA TTTAAAAAGA AAAGTGTATT NTTATTAAAT AAAATTTAAA CATCACTTCA 360  
 GGAAA 365

(2) INFORMATION FOR SEQ ID NO: 525:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 396
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00586

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 525:

```

GATCTATGGG TTGACTAATT AAACAATAAT TCAAGTAGAG TGTCCCAGAA AAAAACCCT 60
TGGGCTCCCT GTTTGGAGTC TGGCTGGCTC TGAGCATTGC CAATGGCCCC TACTCACCTG 120
ACTTTGTATC CTCTCCTTTT AGAGGCTTTG CATTCTGCAC CCAGCTTCAC TAACAGTGGG 180
CTGAAAACAT CCTTGGGTTG AGTGTTTCAT TTGGGAGTTA TTTGGCCAGG GCCTTTTGAA 240
CAGTAGTGTC CCCATGAAAGT GCTAGATAAT ATATGTGTAA GAGTCAGCTT TTTTTTTTTT 300
TAAACTNTAA CACCNTTNAG AANTTTCTAA CTACTTNGNA ACTGNATGGT TTANCCCGGN 360
GNTAAAAGCN GTTTTAAAAA GTNTANGTTT TCCAAA 396

```

## (2) INFORMATION FOR SEQ ID NO: 526:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 360
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00589

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 526:

```

GATCCGCGGG CTTCCACTNC ACCATCGGAT GTTTGCCACT CAGACTGAGG GGGAGCTCAG 60
AGTGACCCAA ATTCTCAAAG AAAAGTTTCC ACGAGCTACA GCTATAAAAG TCACTGACAT 120
TTCAGGCACT AAAAGAAGAA ATCAAAGAGA TGCATGGATT GCGGATATTT ACCTCTGTCC 180
CCAAACGCTG ACCACGGCCT GGCTGCATAG ATGCTGCTGC TTAAGACCTT GGATGAACTT 240
CACTGACATC ATTCTTCCCT AAGCAGTCAC CAAAAAATTT ATATATNTNG CTCATATACA 300
NTNCCATATN ATANTTATAG AAGATGTATA ATCTATTTTA GATGTNANTN AAAGGGTAAA 360

```

## (2) INFORMATION FOR SEQ ID NO: 527:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 267
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00590

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 527:

```

GATCGGGTTT GGCCCCCAGC CCCGCTCAG CAGTCCCTC TTCCTCTGCC GGGAGGGTGT 60
TTTCAACTCC AAACCCCAGA GAGGGGTTGT AGATTGGGTC CAGCTTTGCT TCAGTGTGTG 120
GAAATNTCTC GTGGGGTGGC ATCGGGGCTG CGGGGTGGGG ACCCCAAGGC TTTCTGGGGC 180
AGACCCTTGT CCTCTGGGAT GATGGGCACT GCTATCCACA GTCTCTGCCA GTTGGTTTTA 240
TTTNGAGGTT TNTGGGCTTT TTTTAAA 267

```

## (2) INFORMATION FOR SEQ ID NO: 528:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 352
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00591

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 528:

```

GATCAATCAC CTTCTGCTGC TTGGATGGGT GGATTTGGTG CTCAGCCTCC CCAAGGACAA 60
GCTCCTCCCC CTGTAATACC TCCTCCTAAC CAAGCCGGAT ATGGTATGGC AAGTTACCAA 120
ACACAGTGAG CCGGGACTCT AAAAAAAAAAT TGTAATTCAT GATAGGCTTC GATTTCTCTGT 180
GACACTCTGA AGACATGAAA GTAGACATCG GAAAATGNAA ATATTTATTT TAAAAATTGA 240
AATGTTTGGA ACCTTTAGCA CAGATTTGCT TTGGTGAAGG ACACGTGTCT TCTAGTTCTG 300
CCTTTTNAAA GTTTNTTGTT CATGNTGGAT NTTGAACATN GNTTTTNTT TN 352

```

## (2) INFORMATION FOR SEQ ID NO: 529:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 351
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

```

(B) CLONE: HUMGS00592

```

## (ix) FEATURE:

```

(D) OTHER INFORMATION: "N"=unidentified base

```

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 529:

```

GATCAAGCCT TTCTTTTCATT CCCTCTCTGA AAAGTATTCC AACGTGATAT TCCTTGAAGT 60
AGATGTGGAT GACTGTCAGG ATGTTGCTTC AGAGTGTGAA GTCAAATGCA TGCCAACATT 120
CCAGTTTTTT AAGAAGGGAC AAAAGGTGGG TGAATTTTCT GGAGCCAATA AGGAAAAGCT 180
TGAAGCCACC ATTAATGAAT TAGTCTAATC ATGTTTTCTG AAAACATAAC CAGCCATTGG 240
CTATTTAAAA CTTGTAATTT TTTTAATTTA CAAAAATATA AAATATGAAG NCATAAACCC 300
AGTTGCCATC TGCGTGACCA ATAAACATT AATGCTAACC ACTTTTTTAA A 351

```

## (2) INFORMATION FOR SEQ ID NO: 530:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 348
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

```

(B) CLONE: HUMGS00593

```

## (ix) FEATURE:

```

(D) OTHER INFORMATION: "N"=unidentified base

```

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 530:

```

GATCCAGAAT ACCCTGACCT CGCCCCAGTT CCAGCAGGCC CTGGGCATGT NCAGCGCAGC 60
TTTGGCCTCG GGGCAGCTGG GCCCCCTCAT GTGCCAGTNC GGTCTGCCTG CAGAGGCTGT 120
GGAGGCCGCC AACANGGGCG ATGTGGAAGC GTTTGCCAAA GCCATGCAGA ACAACGCCAA 180
GCCCAGCAG AAAGAGGGCG ACACGAAGGA CAAGAAGGAC GAAGAGGAGG ACATGAGCCT 240
GGACTGAGCC ACGCGCCGTC CTCCGAGGAA CTGGGCGNTT GCAGTGCCTT GCACACCTTN 300
ACCTTCNACN TACTGATTAT TAATAAGTT TTTTCTTTTA CCTGCAAA 348

```

## (2) INFORMATION FOR SEQ ID NO: 531:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 347
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

```

(B) CLONE: HUMGS00594

```

## (ix) FEATURE:

```

(D) OTHER INFORMATION: "N"=unidentified base

```

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 531:

```

GATCCTGAAG AGATTGAAAA AGAAGAGCAG GCTGCTGCTG AGAAGGCAGT GACCAAGGAG 60
GAATTTTCAGG GTGAATGGAC TGCTCCCGCT CCTGAGTTCA CTGCTACTCA GCCTGAGGTT 120
GCAGACTGGT CTGAAGGTGT ACAGGTGCCC TCTGTGCCA TTCAGCAATT CCCTACTGAA 180
GACTGGAGCG CTCAGCCTGC CACGGAAGAC TGGTCTGCAG CTCCCACTNG CTCAGGCCAC 240
TGAATGGGTA GGAGCAACCA CTGACTGGTC TTAAGCTGTT CTTGCATAGG CTCTTAAGCA 300
GCATGGAAAA ATGTTTATG GAAAATAAAC ATCAGTTTCT ATTTAAA 347

```

## (2) INFORMATION FOR SEQ ID NO: 532:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 346
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00595

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 532:

```

GATCCGGTNT TGGTGCCAAT GTCTCCAAC TCACTTTTGC TCCTAGCAGC ATTATATTTT 60
ACCTGGGACA TGCTGCTATG CTGGGACTCA TGTATGTCTA CTGGACTCAG CTCAACATGT 120
TCCAGACCTT GAAGTACCTG GCCATCTTGG GCAGTGTGAC GTTTCTGGCT GGCAATCGGA 180
TGCTGGCCCA GCAGGCAGTC AAGAGAACAG CACATTAGTT CCAGAAGAAA GATGGAAATT 240
CTGAAAACCTG AATGTCAAGA AAAGGAGTCA AGAACAATTC ACAGTATGAG AAGAAAAATG 300
GAAAAAATAA CCTTTATTTA AAAANGAAAA AAGTCCAGNT TGTAAT 346

```

## (2) INFORMATION FOR SEQ ID NO: 533:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 346
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00596

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 533:

```

GATCTTGTAG CCTAGATAGG ATAGTNTGAC CTTCTAGCAT AGTCTTTTTC GCAAATNATT 60
TGTGTTTTCA GTGTGTGGGG AAGCTGTCCT GGGGGCTGGG GCGACAGATA GCACATAGGC 120
TGTTTCTGGG GCTGCAGGGG CTTCCNTGAG CTGGATGTTG TGGGTNTTGC CGTGCTTCAG 180
GAAGTNTGGC GACCAGAAAG CGTAGACCCG GGGCCCAGGG TCTGCCCCGC CCTGCAGCNT 240
GGCCTCCCCG CACAGGCTGT GGCTTGCACT CCAGCCGNTC TAGTNTCTNA GGAATTTNCT 300
TGTNACTTGT ACTGTGTAAA TAAAGCTTCC TGGTTCAATA CCNAAA 346

```

## (2) INFORMATION FOR SEQ ID NO: 534:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 345
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00597

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 534:



```

GATCCTATGG CCATGACCCA GAAGTATGAG GNGCATGTNC GGGAGAGCAG GCTCAAGTAG 60
AGAAGGAGGA CTTCAGTGAC ATGGTGGCTG AGCACGCTGC CAAACAGAAG CAAAAA AAC 120
GGAAAGCTCA GCCCCAGGAC AGCCGTGGGG GCAGCAAGAA ATATAAGGNG TTCAAGTTTT 180
AGGTCCCCTC AACTAGCCCC TTTTTTTGGC CCTACGTCTG GATGCCTGGG CTTCACACAA 240
GAACCACCTC TCCCGCAGTT CCAAGGNCT TGTCATTTCA TGTTCTTATT TTAGACCTGT 300
TTTGTAATAA AAGCTGTTTC CCAAGGAAAG AGATGAATAT TTAAA 345

```

## (2) INFORMATION FOR SEQ ID NO: 535:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 354
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00598

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 535:

```

GATCGTGT TT ATGGTGAATC CAAGTTGGGA GGAAATGAAA TAGTATCTTT NTTGAAAGGA 60
ATATTGACTC TTTTGTGCTAC TACATAAAAG AAAGATACTC ATTTATAGTT ACGTTCATTT 120
CAGGTAAAC ATGAAAGAAG CCTGGTTACT GATTTGTATA AAATGTACTC TTAAAGTATA 180
AAATATAAGG TAAGGTAAAT TTCATGCATC TTTTATGAA GACCACCTAT TTTATATTTC 240
AAATTAAATA ATTTTAAAGT TGCTGGCCTA ATGAGCAATG TTCTCAATTT TCGTTTTTCAT 300
TTTGCTGTAT TGAGACCTAT AAATAAATGT ATATTNTTTT TTGCATAAAG TAAA 354

```

## (2) INFORMATION FOR SEQ ID NO: 536:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 343
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00599

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 536:

```

GATCCGTGAC AAGCGCACAG GCAAGACCAA GGGCTACGGC TTCGTACAGT TCAAGGACCC 60
CAGCGACTAC GTGCGCGCCA TGCGTGAGAT GAATGGGAAG TATGTGGGCT CGCNCCCCAT 120
CAAGCTTCGC AAGANCATGT GGAAGGACCG GAATCTGGAC GTGGTCCGCA AGAAGCAGAA 180
GGAAAAGAAG AAGCTGGGCC TGAGATAGGG TCTGTGGCCA GGCACCCGCT CCCACCTGGC 240
CGGGCGCTGG CTCCTCCCTC AGTTCTCTTT GGGAAAACCC CCAGCTNGTC CACCCATCCN 300
NTGCCCCAAA ACCAGTTTCA GTAAATTTAC GTTCATTTCC AAA 343

```

## (2) INFORMATION FOR SEQ ID NO: 537:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 341
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00600

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 537:

```

GATCGAACGG ACTGTGAAAT CCGCTCTTTG TCGGAAGCTG AGCAAGCTGT GGCTTTTTTTC 60
CAACTCCGTG TGACGTTTCT AAGTGTAGTG TGGTAGGACC CCGGCGGGTG TGGCAGCAAC 120
TGCCCTGGAG CCCCAGCCCC TGCNTCCATC TGTGCTGTGC GCCCCACAGT AGACGTGCAG 180
ACGTCCCTGA NAGGTTCTTG AAGATGTTTA TTTATATTGT CCTTTTTTAC TGGAAGACGT 240
ACGCATACTC CATCGATGTT GTATTTCAG TGGCTGAGGA ATTCTTGATC GCAGTTTTTCT 300
TTGGCTTTAC GAAGCCGATT AAAAGACCGT GTGAAATGAA A 341

```

## (2) INFORMATION FOR SEQ ID NO: 538:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 339
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00601

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 538:

```

GATCCTCGGG TGTTCCTCCC ATCAGATAAA ATAGTTCACT ACAGACAGAT GTTTTTATCT 60
ACTGAACTAC AAAGAGTAGA AGAGCTTTAT GATTCATTAT TACAAGCTGT TGCCTTCTAT 120
GANTTAGCAG TGTGTGACTC TCAGCCTTAG AATTCTGAGG TTAACGTGCT AAAGTATAAT 180
TNTTAGCTCT AACGTAACAC CAACTGTTGT GAACATCCAT GTTATTGGAA AAGAACACAT 240
TTTCAGTGTA TTTTAGATGT TTAANTTCTG ACTTTTGGCT ATTAAATGGT TTACACAATA 300
AGCCAAGACC AAATCAATAA ACATTTTNTG AGAACGAAA 339

```

## (2) INFORMATION FOR SEQ ID NO: 539:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 339
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00602

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 539:

```

GATCATCATC CGAGTGACAG CCACGCCGGA CTACAGCCCC CAGGAAGCCT TTACCAACGC 60
CATCACCGAC CTCATCAGTG AGCTGTCCCT GCTGGAGGAG CGCTTTCGGG TGGCCATAAA 120
AGACAAGCAG GAAGGAATTG AGTAGGGGCC AGAGGGGGCT CTGCTCGGCC TGTGAGCCCC 180
GTTCTTACCT GTGCCTGACC CTCCGCTCCA GGTACCACAC CGAGGAGAGC GGCCGGTCCC 240
AGCCATGGCC CGCNTTGTGG CCACCNCTCA CCCTGACACC GACGTGTCCT GTACATAGAT 300
TAGGTTTTAT ATTCTAATAA AAGTATAGCG GAAGAGAAA 339

```

## (2) INFORMATION FOR SEQ ID NO: 540:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 339
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00603

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 540:

GATCGTTATG AATATCAAAT GTCCATTTCT ATNGTAATGA ATTCAGTGGA ACCATCACAC 60  
 AAAAGCACAC AAAGACCTCC TCCTCCACAG GGGAGACAGA GGTGGGGAGG CTCTCTTGGC 120  
 TCACATAATC GTGTCTGTGT CACAAATAAT CATTAAATTA GCTATTTTCA GCTAACACAT 180  
 TTGTNGTTGC ACTTGAAAAA GAGTTAGTGA GCCTGTCTTG GAGTTTAAAGT AGTTTCAAAT 240  
 AAAAAAGGC TACAGTGCCT CACAAAGGAT GTTCCCAGCA AGTNGTTTAA ATTCCCAGCA 300  
 AGTTGTTAAA GTGTAAATAN AANTATATGA ANTTGTAAA 339

(2) INFORMATION FOR SEQ ID NO: 541:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 355
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00604

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 541:

GATCCTGAAA TCTACTAGAG ACACCCCTAA GCCATGAATG AACTACATCC AAATACCTGA 60  
 NTTTTTGGAA TCTGTTTCAT GGATTTTNC A TCTTCTACCG TATGTNAAAT TGCAAGTNTT 120  
 TGAAGATTTA TAAGTACAAA TTTGGGAACA TACAAATCTT TTAGGTAGTA GAGTTTAAACG 180  
 TGTATAAGCT AAAAGTGAAA GTAAGTGAAGT GTTCTCTTGT TTCTTTGCAT TAATGTAACT 240  
 GTGTGGTTTG CCTTTGTCCC CCTGGATAGA ACGTGCATTT AAAGAATATA TTGTACTTAC 300  
 TGTGACAGCA GATAATAAAC CAGTCTCTTG GAGGGCACAA CCCTTATTTG ACAA 355

(2) INFORMATION FOR SEQ ID NO: 542:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 331
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00606

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 542:

GATCTTTTTT ANATAAANNT TATGTATTGT GGCATAATCC TTTTTTTGAG CTCTACAGAG 60  
 AACAGTCTTT TGGAATAGT GGCAGGTATT TATTCCTTCT GAATATATAC CCCATTATAG 120  
 GAATAACTGT TACTTATTTA GGATTCCATC ATTGAAAATT TTNACCCAAG GCACAGCAGT 180  
 GAANTTTATA GTNCTCANTT TAGTTGNCAT TATTGACAGG CATTGGNATT ATTAGTCATT 240  
 GCTAAGCAAC TAAACTTCA TCAGTTCAAN TAAGTTTAN TTGTCANATG GCNGTATAAN 300  
 CACATGANCT TTCTAGGAAA TATTCCCTCN N 331

(2) INFORMATION FOR SEQ ID NO: 543:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 330
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00607

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 543:

```

GATCGGTGTG CCCCCTGCG AGGGGCCCC CATGGGGCTG NTGGCCCNCT CGCAGTCAGG 60
ACATCCCAAC CCCTGGNTGG GACTGAACCA CCCAGAGCGG AGGGCNTCCC TTTTNAGCCT 120
TGTNAGTCAC CTGGCAGGCC CCAGCTGGGC TGGCTGTCCG TGTCCCTCAG CCTGGNTGGT 180
GATTCTTTGC AGGCCAGAAA TNAAGAGTCC CTGTAGGTTT TGGTTTTGTT TGTTTTATTT 240
TGTTCTTTCA CCTTTTTTCC TCATTAAAAA AAAAANGNCC CTGNGGAGTG TACTNATTNA 300
TTTTTTGATN AAAGGGANGT AAAATGNAAA 330

```

## (2) INFORMATION FOR SEQ ID NO: 544:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 329
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00608

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 544:

```

GATCCAGACT GTAAGATGTT GTTTTAGGGG CTAAAGGGGA GAAACTGAAA GTNTTTTACT 60
CTTTTTCTAA AGTGTGGTTC TTTCTAATGT AGCTATTTTN NTTGTTGCAT CTTTCTACT 120
TCAGTACACT TGGTGTACTG GGTTAATGGC TAGTACTGTA TTGNCNCTGT GAAAACATAT 180
TTNTGAAAAG AGTATGTAGT GGCTTCTTTT GAACTGTAGT ATGCTGAATA TCTGTCCACT 240
TTTCAATCCC AATTCTGTCC CAATCTTACC AGATGCTACT GGACTTGAAT GGTTAATAAA 300
ACTGCACAGT GCTGTTGGTG GCAGTNAAA 329

```

## (2) INFORMATION FOR SEQ ID NO: 545:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 329
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00609

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 545:

```

GATCACTAGA TTTATGGAGG AATTNGTCAC AAATNACTTN TAGAAAAATG CTGTCATATA 60
GTTTCATTTCA TCATTTTCTG TTGCAGGAAG CCACTCCACC ACAGAATGCT AATATGCCAG 120
TGGTACCCAG TACCTCTTGT ATATAGGTTA TTGCAAATAT TGTNCTGAAA TGCTTAACTT 180
CAGAATTACA TTTTTTAAAG TAAATAATTG TTTTAAATCT ATTTTGTAAG GNTATAAAGT 240
ACAATAGAAT TTCTGGAGTA CAGATTAAAC TATTTGCACT AACACACGTG CCGTGCATGA 300
TTTAATAAAA TANCTNNACT CTCNTAAA 329

```

## (2) INFORMATION FOR SEQ ID NO: 546:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 328
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00610

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 546:

GATCACCGTG TGCTCAGGCC AGGTGTGAAT CCTGAGGTCC ATGGAGGTGC AGAGATGAGA 60  
 TTACTCCTAT TCACGTTGAA GTGATTTGCT TTGTTAACAA AAAATTGCAG CTATTGTCTA 120  
 GCTTTCATTT TTTTACTGAG AACTTTAAAT TAGTCCCCTA TTAGAATAGG GTTGCTACTC 180  
 ANCTNTTTTN AAAAACCGAA TTTCATCATT TATCTAAAGA GNAAATATGC AGANTAAC TG 240  
 GTCTTGTTAA GAGTGCAATA TTATATNNNN ANGTAAGAACT AAAANTNAAT TTGGGGGGGAT 300  
 TATTTATNCA GCATGANACC TANTNTGN 328

(2) INFORMATION FOR SEQ ID NO: 547:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 328
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00611

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 547:

GATCCCNNGG ACGTGAGACT TANNCTTCCA GCCAGTGTGA ATCATTGTAT TTTGTCTCAT 60  
 AATCACAGCA CNCCTGCATG ACACAACAAC GTGCAGCATT TTTTACATAA AAATATGGTA 120  
 GANTTAATTT ATGACATGGA AATGCCTTAC GTGGTATCAC ACTTAGTCTT GAAAAAACA 180  
 CCNAGGTGAC GTTTAAATTT TTTAGTACAT ATCCTCAAAT TGGAGCTAAG TTATACTTCT 240  
 TTTATAACCT TTTGGGCATC TGGTCGAGAG AAGACAAGAT TTTNTCTATT TACAGTGATG 300  
 CAATAAATAT GTTTGCCACC TTTGGAAA 328

(2) INFORMATION FOR SEQ ID NO: 548:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 322
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00612

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 548:

GATCTTGAAG AGACCGCTGG CAGCACCAGT ATTCCCAAGA GGAAGAAGTC TACACCCAAG 60  
 GAGGAAACAG TTAATNACCC TNAGGAGGCA GCCACAGAAG TGGCTCCAAG AAAAANAGGA 120  
 ATTTNTCCAAA GAGGAGCCGG TCAGCAGTGG NCCTGAAAGA GGCGGCTGGC AAGANCAGCT 180  
 CCAAGAAGAA GAAAATGTTT CATAAAGCAT CCCAGGANGA TTAGAATCAA ATGGACANTC 240  
 TCTNGGAGGT GGGNATACCA TAGNCCAAGG TNCATTTCCC ACCNTGTGCC GTGTTCCCAA 300  
 TAAANACAAA TTCACAAGGA AA 322

(2) INFORMATION FOR SEQ ID NO: 549:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 318
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00614

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 549:

GATCCACCTA GCCTCAGCCT CCCAAAGTGC CGCCGGGATT ACAGGCGTNA ACACCATGAC 60  
 TGGCCTTCAT TATCTCTNTT TTAAAAATGA AAAAGTTTAT AATTTACATT CAGTAAAATC 120  
 ACCCTTTTTA GTGTCTAGTC TGTGAATTTT GACAAATGCA TGGTTTTGTA ACCAATCGAT 180  
 AGGNCAGTTC TGCCACCCAG GACATTCCCN TCTGTTCCCTC TGTTCCCTCTC TTCTCCTGCC 240  
 CCCTAGCAAC CACTGGTGTGTT TTCTGTCCNT CTGGTTCATT TGACATTTAT TTAAAAATAA 300  
 AATATTTTAA AATCTAAA 318

(2) INFORMATION FOR SEQ ID NO: 550:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 318  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00615

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 550:

GATCCTCACC GTGGAGGACC ATNATAATNA AGGTGGCATT GGTGAGGCTG TGTCCAGTGC 60  
 AGTAGTGGGC GAGCCTGGCA TCACTGTCAC CCACCTGGCA GTTAANCGGG TACCAAGAAG 120  
 TGGGAAGCCG GCTGAGCTGC TGAAGATGTT TGGTATCGAC AGGGATGCCA TTGCACAAGC 180  
 TGTGAGGGGC CTCATNACCA AGGCCTAGGG CGGGTATGAA GTGTGGGGCG GGGGTCTATA 240  
 CATTCTGAG NTTCTGGGAA AGGTGCTCAA AGATGTACTG AGAGGAGGGG TAAATATATG 300  
 TTTTGNGNAN AATGCAAA 318

(2) INFORMATION FOR SEQ ID NO: 551:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 314  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00616

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 551:

GATCCCCTCT CTGAAGAGAA AGGAGGAAAG AAAAGAAAAA AACAGAAACA GAAGCTCCTG 60  
 TTCAGCACCT CAGTCGTCCA CACCAAGTGA CACTACTGGN CCAGGCTACC TTCTCCATCT 120  
 GGTTTTTNTT TTTTNTTTTT TTTCCCCCAT GCTTTTGTGT GGNTGCTGTA ATTTTAAAGT 180  
 ATTTGAGTTT GANCAGATTA GCTCTGGGGG GAGGGGGTTT CCACAATGTG AGGGGGAACC 240  
 AAGAAAATTT TAAATACAGT GTATTTTCCA GCTTCCTGTC TTTACACCAA AATAAAGTAT 300  
 TGACACAAGA GAAA 314

(2) INFORMATION FOR SEQ ID NO: 552:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 313  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00617

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 552:

GATCCCTACT TGGNAGTTAA CCCTAACTAC TTGCTCGAAG ATTGAGATAG TGAAAGTAAC 60  
 TGACCAGAGC TGAGGAACTG TGGCACAGCA CCTCGTGGCC TGGAGCCNGG CTGGAGCTCT 120  
 GCTAGGGACA GAAGTNTTNC TGGAAAGNNAT NCTTCCAGGA TTTNTTTTTC AGAAACAAGA 180  
 ATTGAGTTGA TGGTCCTATG TNTCACATTC ATCACAGGTT TCATACCAAC ACAGGCTTCA 240  
 GCACTTCCTT NGGTGTGTTT CTNTCCCAGT GAAGNTGGAA CCAAATAATG TGTAGTCTCT 300  
 ATANCCANTA CCN 313

(2) INFORMATION FOR SEQ ID NO: 553:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 310
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00618

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 553:

GATCTTAGCT AGTTCATCAC TTCCTCAGGG AAACATTCCC TAATTTCTGT CACAGAGTAA 60  
 GACCCGTTGT TATACGTCTC ACCTGACCAT GTACCTCTAC TTAGCATTTA ACACGTGTAA 120  
 TTTTGTATGT ATTGGTTTGA TTAATGTCAG ANCCACTAGA TTGTAAACTC CATGAGGACC 180  
 GGAATTTNGT TTCTGTCATT GTCATTGTTC AACTTTGTAT TTTTNATGCC TCATACAGTG 240  
 CCTGGCACAT AGTAGGTGCT CAATTAACCT NATTTGAAAAG AATAAAATGA ATGGATGAGG 300  
 TATCAAGAAA 310

(2) INFORMATION FOR SEQ ID NO: 554:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 310
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00619

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 554:

GATCTGGGGG CCACCACCT GTGCCGGTGG CCTCTGGGCT GCCTCCCGTG GTGTNAGGGC 60  
 GGGGCTGGTG CTCATGGCAC TTCCTCCTTG CTCCCACCCC TGGCAGCAGG GAAGGGCTTT 120  
 GCCTGACAAC ACCCAGCTTT ATGTAAATAT TCTGCAGTTG TNACTTAGGA AGCCTGGGGA 180  
 GGGCAGGGGT GCCCCATGGC TCCCAGACTC TNTCTGTGCC GAGTGTATTA TAAATCGTG 240  
 GGGNAGATGC CCGGCCTGGN ATGCTGTTTG GAGACGGAAT AAATGNTTTC TCATTGAGTC 300  
 TNCAGTCAAA 310

(2) INFORMATION FOR SEQ ID NO: 555:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 308
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00620

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 555:

GATCCNGTGC TGAAAGAGAA ACCAAGAAAA AAGATGACAT TCCAGAAGAA GACAAAGGAA 60  
 ATGTAAAACA ATGTGAAATC AATTATGTAA AGAAATTTCA GAGCTTCCAA GACCACAAAC 120  
 TTAAAATAAG TAAAGANGAC AGTAAAATTN TAAAAAAGGC TCGGAAAGAT GGATTTTTGC 180  
 ATGAGACGCT TCTGGACAGG NGAGCCAAAT TGAAAGCCGA CAGATACTGC AAGTNACTGG 240  
 GATTTTTNTT TCTGCCTTAT CTTNCTGTNG TTTTCTCTGA NTAAAATATT CAGAGGAATG 300  
 CTTTTAAA 308

(2) INFORMATION FOR SEQ ID NO: 556:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 300
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00621

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 556:

GATCTTCCTG AAGTNTCTCC CCGTTTNGTG CAGCTGGCCA TACCCAGGT GGACATNATG 60  
 AGTCAGGCTG ACTTAATTNC TCATGAGCAG ACCATCCCAG TGAATGCAA GGCATGGGC 120  
 TCCACAGCCT GGACCCTGGC ATGGAGTCCA GCNNCTGCT CACCGGCCAG GAGGCCTGGG 180  
 GCGGGGTCAC TTACCCTTNT NAGCCTCANT TTCTNTTCTT GGAAGCGGAG ATGTAATAG 240  
 CTTTACATT NGAGGTGAAT GTNAGAATTA AACTTGGGCA CATGGAGGAA TACACCTAAA 300

(2) INFORMATION FOR SEQ ID NO: 557:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 299
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00622

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 557:

GATCACTTGT CCTATTACCC TATACCTAGC ACTTGTGACA CCACCCCTAA ATCACTTTGA 60  
 GCCTGGGAAA TAAGCCCCCT CAACTACCAT TCCTTCTTTA AACACTCTTC AGAGAAATCT 120  
 NCATTCTATT TCTNATGTAT AAAACTAGGA ATCCTCCAAC CAGGCTCCTG TGATAGAGTT 180  
 CTTTAAAGCC CAAGATTTTT TATTTGAGGG TTTTGTGTTT TTTAAAAAA AATTGAACAA 240  
 AGACTACTAA TGACTTTGTT TGAATTATCC ACATGAAAAT AAAGAGCCAT AGTTTCAA 299

(2) INFORMATION FOR SEQ ID NO: 558:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 301
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00623

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 558:

GATCTGCTTC TCCAGTTTTT GAGGAGCCAG CCAGGGGTCC AGCACAGCCC TACCCGCCCC 60  
 CAGTATCATG CGATGGTCCC CCACACCGGT TCCCTGAACC CCTCTTGGAT TAAGGAAGAC 120



TGAAGACTAG CCCCTTTTTC TGGGGAATAA CTTTCCTCCT CCCTGTGTTA ACTGGGGCTG 180  
 TTGGGGACAG TCGTGTATTT CTCAGTGATT TCCTACAGTG TTGTTCCCTC CCTNAAGGCT 240  
 GGGAGGGTGN TAAACACCAA CCCAGGANTT CTCAATAANT TTTTNATTAC TAAACCTGAA 300  
 A 301

(2) INFORMATION FOR SEQ ID NO: 559:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 297
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00624

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 559:

GATCAGATTT TGCTAAATGG AAATAATATA ACAATGCTGG TTCCTGGAGG AGAAGGACCT 60  
 GAAGTGTGAA TGAGTTTCCT TGACTTACAC TAGATTTTGT TTTGGCTTAT AATGACAAGA 120  
 AAATGGAATT TTTTTCCTCC ACTTCTAAT GTTTAAATCC CATAAAGCTA AGTTTCCCCT 180  
 TAAAGGGAAG TGCTTTGAAG ATGTGTACCC ATTTTGTGTA GTTAATCATG ATTATCCTGG 240  
 AAAAAGAAGA AAAGAGCTTC TTCTTTCAG ATGAAAATAA AGGTGTTTTT GGTAA 297

(2) INFORMATION FOR SEQ ID NO: 560:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 304
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00625

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 560:

GATCTATTTG TAGATTAGGA TTAAATGGA TTTAATCCAT TTTTAAGGCT GTGTGAATTT 60  
 TTCTAAACAA GAACATTTG CAATATGGAT TTCTTAGAGA TTAAACCAAT TATACTTAT 120  
 TAGCAGTCGC GAGCACATGT TCATATAGTC AATGTAAAAA TACACTAATG AGTATTTGGT 180  
 AAATCCAGT AGGCTTTTAC CATTAGCATA ATTTTGTGTT GTACAATTAA GTTACAATTA 240  
 CATCTCTAAT TTTGGATAAT ATTCATTGGT TAACANTANA GTGACAAAAG CTCATGCCTT 300  
 CAAA 304

(2) INFORMATION FOR SEQ ID NO: 561:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 301
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00626

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 561:

GATCTGGAAC TTTGCACATG TCACTACTGG GGAGGTGTTT CTGCTCTAGC TTCCACGATG 60  
 AGGCGCCCTC TTTACCTATC CTCTCAATCA CTACTCTTCT TGAAGCACTA TTATTTATTC 120  
 TTCCGCTGTC TGCCTGCAGC AGTACTACTG TCAACATAGT GTAAATGGTT CTCAAAGCT 180

TACCAGTGTG GACTTGGTGT TAGCCACGCT GTTTACTCAT ACAGTACGTG TCCTGTTTTT 240  
 AAAATATACA ATTATTCTTA AAAATAAATT AAAATCTGTA TACTTACATT TCAAAAAGAA 300  
 A 301

(2) INFORMATION FOR SEQ ID NO: 562:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 294
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00627

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 562:

GATCTNAGGA GCTTTAGGGA GAAGACTTGG TGGGGCTGGA GCACACCTTG GGNCTCANTG 60  
 GTTCTGTGT CCCNGTGGTG CCANTCCTTC TGGGCAGTGC AGGCGGCTGC CAGGCCCAGC 120  
 CCTGACTTCC ACTCTGGCTC AGCAACCTGG TTATTTATGT GGGGCCGTGC AGGCATGGGC 180  
 CCACTGCCTG TCCATCCTGT TTCTNTTATA AATTGAACT CACCATTGCC CTATCCTTGT 240  
 GTCTCCACCC GCTTCCATGT GTTGAATAAT AAAAGGTGGG AAAGTGCTGT CAAA 294

(2) INFORMATION FOR SEQ ID NO: 563:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 296
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00628

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 563:

GATCTGCCAT AAGAAAATCT AGTTCAACTC TAATTTTATG TAGTAAATAA ATTGGCAGGT 60  
 AATTGTTTTT ACAAGAATC CACCTGACTT CCCCTAATGC ATTAAAAATA TTTTATTTTA 120  
 AATAACTTTA TTTATAACTT TTAGAAACAT GTAGTATTGT TTAAACATCA TTTGTTCTTC 180  
 AGTATTTTTC ATTTGGAAGT CCAATAGGGC AAATTGAATG AAGTATTATT ATCTGTCTCT 240  
 TGTAGTACAA TGTATCCAAC AGACACTCAA TAACTTTTTT GGTTGTTAAA CTGAAA 296

(2) INFORMATION FOR SEQ ID NO: 564:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 307
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00629

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 564:

GATCGACTAC AGAGTACTTN TTTCTTATGA TGATTGGTGT AGAAATGTGT GATTTGGGTG 60  
 GGCTTTTACA TCTTGCCTAC CATTGCATGA AACATTGGGG TTTCTTCAA ATGTGTGTGT 120  
 CATACTTCTT TTGGGAGGGG GGTTGTTTTT TTCTGTTTAT TTTCTGAGAC TCCTACAGGA 180  
 GCCAAATTTG TAATTTAGAG AACTNAANT TTGTTAATCC TGTCTGGGAC ACTTAAGTAA 240  
 CATCTAAAGC ATTATTGCTT TAGAATNNNC AAATAAAATT TTCCTGACCA AATTGTTTTG 300

TGGGAAA

307

## (2) INFORMATION FOR SEQ ID NO: 565:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 296
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00630

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 565:

```

GATCTTGCTC CTTCACTC TGACCTGAGT GGAGACCTTT CCACCAGACA CAGCTCGGGC 60
CTGTGTAATT GTAGGAGAAG ACACTCAGCA GTGATTGCCA TGGCACAGAG CCGTGGTCAT 120
TGTTGCTGTT ACAAAGAAGA AAACCATCTG AGTTCTAACT CCTTGTTGC TTAAAAGTAG 180
TTCCCAAGAG TCTGAGAAGC TATTTCTATT TTTAAGAGTC ATTTTTTGTA ATNTTTGTAA 240
NACAAAAGTA CCAATCTGTT TTGTAAATAA AANTCATCCT AAAATTTCGAN GTTAAA 296

```

## (2) INFORMATION FOR SEQ ID NO: 566:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 288
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00631

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 566:

```

GATCTTTNGC TAGGTGGATG ACTAGTNATA TTCAAAGCCT TTTCTCAAAG CCCTTTCAGT 60
TACAACCACC CCACTATGGA ATCAGTATTT AGTTATACAT TTGTATAAGA NCCTGTATTT 120
TGAAAAACAC ATTCATGTAT ATTTATTCCT GGAATTATTT GCCTGTATAA CAGTGTCTTT 180
CATGTTCTCT CCCAGATTG TAAACTCTGT AAGAAGCTGC TNGTATCTGT ATCCCTTGTT 240
GAAACTCTGA AAACACTGAA TAACTAAANT CTTCTTCTCA TCCNTAAA 288

```

## (2) INFORMATION FOR SEQ ID NO: 567:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 292
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00632

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 567:

```

GATCTTGATA TTCTGTACAA GTTGATGTAA TACCCTGATG CGTTTTAGAG GACTTGGCAT 60
AAAATNAAAG NTTGGCAAAG GCCCTTGAGG GGCTTGGGGA TGAGAGTATG GAACTGTCTG 120
CATTGGACCC TAAACTGGAC TAGANGAGGC ATCTTCAAGG TTCATACGTT GTCCAGCTGT 180
AAGTTCATTT GAGTAGCAGA GCTAACAAAT ATTTGAGGTC AAAACCCTAC CATGTTAAAA 240
CAACAAAAA CTTATCATGT TAATAAAAGT ATTCATTTGC TTGANANANA AA 292

```

## (2) INFORMATION FOR SEQ ID NO: 568:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 291  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00633

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 568:

```
GATCCTGACA AGAAGAAAAT NAAGCTCAAA GTCAAAAAAT CTCGTGAAAA ACGGAGTTTG 60
GCCTCTCATC TCAGTGGATA TATCCCTNCC AAAAGGAAAC AAGGGCAAGG CTTATCTTTG 120
TGTCAAAACG GAGAGTCACC CAACTGTGTG GAAGACAAGA TGCTCTCGAC AGTTGCAGTA 180
CTTACCCTTG GCTAAGAACT GCACTGCTTT GTTTAAAGGN CTGCAGACCA AGGAGCGAGC 240
TTTCTCTCAG AGCATGCTTT TCTTTATTAA AATTACTGAT GCAGANAAAA A 291
```

(2) INFORMATION FOR SEQ ID NO: 569:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 285  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00634

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 569:

```
GATCANGCTG GCTGCAAAGA AGGGACTGGA CCCATACAAT GTACTGGCCC CAAAGGGAGC 60
TTCAGGCACC AGGGAAGACC CTAATTTAGT CCCCTCCATC TCCAACAAGA GAATAGTAGG 120
CTGCATCTNT NAAGAGGACA ATACCAGCGT CGTCTGGTTT TGGCTGCACA AAGGCGANGC 180
CCAGCNNTGC CCCCCTNGT GGAGCCCATT ACAAGCTNGT NCCCCAGCAN CCTGGCACAN 240
TGAGGNACCT GCACTAAATT ACTNAAAATG TGCTGTAAAG NTTTN 285
```

(2) INFORMATION FOR SEQ ID NO: 570:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 285  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00635

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 570:

```
GATCACCCCTT GTAATGTGTT ACGGGTCCAT TTTTCCTGGA ATCGTTTAAT CTAAAGCAGT 60
TTCCCTGTGTT TTGGAGATTT TNTAGTTAAT TTTAATTTTG GCTATTGTTT GGAAAAGATG 120
AGCTGTCTGT GTAGATATGA AGTATAGTTT TTNCCATAAA ACAGATGTTT ATTTTGTATT 180
AAAAAATACC ACTGTACTTG TTTTACACCA TTTGTATACA TGTGGTGATA TTAATGCTAA 240
ACTGTAAAAT TCAGGAATTA AAATGTGACC CTGTAATTCC ATAA 285
```

(2) INFORMATION FOR SEQ ID NO: 571:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 287  
 (B) TYPE: nucleic acid

(C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00636  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 571:

```

GATCTAACCA TTTTCATACT CTAACTGAT TGAAACAGAT TCAAAGAAGT ATCGAGTGCT 60
ATGCATTGAA ACTTGTTTTT AAATGTTAGA TGGCACTATG TATATTAATG TAAANCAATG 120
TTAATTTACT CAAGTTTTCA GTTTGTACCG CCTGGTATGT CTGTGTAAGA NGCCAATTTT 180
NGTGTATTGT NACAGTTTCA GGTNATTNAT ATTTCGATGTT TTGTAAANCT CAAATANCGA 240
CTATACTNAT GGGNCCAAAT AAATGGGCAT CTGCATTCTN GGTTAAA 287

```

(2) INFORMATION FOR SEQ ID NO: 572:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 282  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00637  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 572:

```

GATCTNTGGT GGCAATGNCT GACCAGTAGA CTGGTGGCTC ACTTCTNCCC ACCTGCCGGC 60
AACACCAGTG CCAGGAAAAG GCCAAAAGAA TGTNTGTTTC TAACAAATCC ACAAATAGCC 120
CCGAGATTCA CCGTCCTAGA GCTTAGGNCT GTTTTCCACC CCTCCTGACC CGTATAGTGT 180
GCCACAGGAC CTGGGTCGGT CTAGAACTCT CTCAGGATGC CTTTCTTACC CNATCCCTCA 240
CAGCCTCTTN CTGCTAAAAT AGATGTTTCA TTTTNTGGA AA 282

```

(2) INFORMATION FOR SEQ ID NO: 573:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 279  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00638  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 573:

```

GATCTACTGG CGAGCGATGA AAATGTTGCA GGGAGAGTCA GCAGAGGCAT TTGTAGCTAA 60
ACATGCTATG CATCAGACTG GCCATTTATG AAGATGAAGA ATACAGTCAG CTTTGTGAAA 120
TAGTATTGCA AGCAAGCCCC GTGGGCAAAT TTGTATTGAG TCCATCTGTA ATTTGCTCAG 180
TGATGGCAGA CAAGATGGCT GTCTGGTTTT GAGACACACT TTAATTTTAT GTTAACTTGT 240
TAAATCTTTT TAAAAATTAA AAAATTTTAA TGATTGAAA 279

```

(2) INFORMATION FOR SEQ ID NO: 574:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 279  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00639

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 574:

```
GATCATTGCA TTTTCCTGTA TTTTCTAAAA TGGCTCCAAT TTTGTNTTTT AAGCTTCAGC 60
TTAAGAGGAA GTTTATGTTT TAATTCTTGA CTGAGAATAC AGTATTGAGA TTCTNTGTTT 120
TACAGATAAC AACTGGTTTT TATTACTCAT TAAGTTCATT TGCATCCCGT AGCCCTCTGT 180
AAATGTTTCC CCTAGTTGTA TGTACGTAAA TGCACGCTTA TCCAGTNTAT ATTAGACATT 240
TTTGTGCTAA AATATATTAA GTGGGATTTT TGTAGCAAA 279
```

(2) INFORMATION FOR SEQ ID NO: 575:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 280  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00640

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 575:

```
GATCTTTGCA AGGGCAAAAC TACAAGTAAC GAGTTTTATA TAATTAATTT AAATTTNTNA 60
CAGGTTTTCA TGTTCAGGAT AAACCATACT TCCACCTTGG GTGAGAACAC TTGCAACAGT 120
TTATTAATGA GGTGACTTTC ACCTTAGGAC AACTGTTGCA TGCCAAGTTT TTTGTGTGTG 180
TGAAACACTN TCAAACTGA TTTAAAAGAT GTAAATTTAA AATTGGTTGT ATCTAATATG 240
CCCCAGGTTT GGTAAATAAA CAATTCTTTT TAAAAACAAA 280
```

(2) INFORMATION FOR SEQ ID NO: 576:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 300  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00641

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 576:

```
GATCTGCCTG TCCCTTTTTT CCCTGGGGTT TGACACACAG GCTCCTCTCA GCATGAGGTG 60
GAGCAGTGAC CAGGTGGAGC AGTGACCAGG ACGCCTCTGG CCCAGTGCTG CCCAGCCTCC 120
CCGNCCGCTC CCAGGCGCCC CATGTCCTCA CAGGCCAGGA CGCCATGNCA GGATGGAGAG 180
GACTTGGTGG ATTTTGTGTT CTTGCCTGAC CTCAGTTTCA TGAAAGAAAG TGGAAGCTAC 240
AGAAATTATTT TCTAAATAAA AGGCTGAATT GTCTGAAAAA TAAAATATAT TTGTATTAAA 300
```

(2) INFORMATION FOR SEQ ID NO: 577:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 278  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00642

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 577:

```

GATCTGGGAC GTGGTTCGGC GGANAGTCCC CAGCCCGGCC CCCTGCCTGG GACCACCAGG 60
CCCCCAGGAG AAGCCGCCTG AGCCACAACC TTGCGGCATG CAAATNAGAT GGCCGCTCCA 120
GGCCTGGAAT GTTCCGTGGC TGGGCCCCAC GGAAGCCTG ATGTTCAAGG TTGGGGTGGG 180
ACGGGCAGCG GTGGGGCACA CCCATTCCAC ATGCAAAGGG CAGAAGCAAA CCCAGTAAAA 240
TGTTAACTGA CTTCCAGCCT CACCCGTGGG CGGTCAA 278

```

## (2) INFORMATION FOR SEQ ID NO: 578:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 277
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00643

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 578:

```

GATCAGGGCC CACTGATGAT GGTGAAGAAG AGATGGAAGA AGACACAGTC ACAAACGGGT 60
CCTGAGCAGT GAGGCAGATG TATAATAATA GGCCCTCTTG GAACAAGTNT TGCTTTTNGA 120
ACATGGTATA ATAGCCTTGT TTGINTTAGC AAAGTGAAT CTATCAGCAT TGTTGAAATG 180
CTTAAGGCTG CTGCTGATAA TTTNNTAATA TAAGTTTGA AATCNAAATG TCAATTTNCT 240
ACAAATNATA AAAATAAACT CCACTCACNA TGCTAAA 277

```

## (2) INFORMATION FOR SEQ ID NO: 579:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 277
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00644

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 579:

```

GATCCGAGTC GTCCGGAAT CCATTGCCCC GTNTTCTCAC AGTTATTAAC CAGACTCAGA 60
AAGAAAACCT CAGGAAATTC TACAAGGGCA AGAAGTACAA GCCCCTGGAC CTGCGGCCA 120
AGAAGACACG TGCCATGCGC CGCCGGCTCA ACAAGCACGA GGAGAACCTG AAGACCAAGA 180
AGCAGCAGCG GAAGGAGCGG CTGTACCCGC TGCGGAAGTA CGCGGTCAAG GCCTGAGGGG 240
CGCATTGTCA ATAAAGCACA GCTGGCTGAG ACTGAAA 277

```

## (2) INFORMATION FOR SEQ ID NO: 580:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 276
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00645

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 580:

```

GATCAGGACC CACCTNCAGT NCTTCTGAAA GTGTGACAGT GTCCAGCCGG TTCTGCAGCA 60
CTAGGGGAGG GGGCAGATGG TGGTTGCATG GGCTTCCTGG GTCTCCACTC TCCGTCTGGC 120

```

CTAAAGGTGA TGTATTTGGT GTTTGGCCCT GCAGTCCCCA CTCTTGAGGC TTAAGGCGCA 180  
 TGTGGCACAN CACTNCTTCC AGCAGTAGTC GCTTTACTGT TACCNGTTTA GGCCTAGAAG 240  
 TTTTCCNNCA TCTGTAAATG TGATTAAAA TNTAAA 276

(2) INFORMATION FOR SEQ ID NO: 581:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 275
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00646

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 581:

GATCTACTTA CTCAAGTCTN ATGAATNCTG NGCCTTTCAT CACATTCCTA GCCCACTCTC 60  
 ATCATTACTG CAGAAGGGTG TTGTGATGAC CAGTNTTATA CTGTGTTTTG ATATGTCTAG 120  
 CAATAACTTA AAGAAAAAAA AACCTGGGAA ATCTTCAACA TGNNNTNGGA ACATATATGT 180  
 ATGTATTAAT GNATATACAT GGCTTAACTT ATACGGTTAT GGCAGCNCCT GTATACAGTT 240  
 TGAACATCATG NACCTGAAAA ANAATTCTTA ANTTN 275

(2) INFORMATION FOR SEQ ID NO: 582:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 307
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00647

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 582:

GATCGCCATC ATGAACGACA CCGTAACTAT CCGCACTAGA AAGTTCATGA CCAACCGACT 60  
 ACTTCAGAGG AAACAAATGG TCATTGATGT CCTTCACCCC GGGAAGGCGA CAGTGCCTAA 120  
 GACAGAAATT CGGGA AAAAC TAGCCAAAT GTACAAGACC ACACCGGATG TCATCTTTGT 180  
 ATTTGGNTTC AGAACTCATT TTGGTGGTGG CAAGACAACCT GGCTTTGGCA TGATTTATGA 240  
 TTCCCTGGNT TATGCAAAGA AAANTGGAAC CCNAACATAG NCTTGCAAGT CATGGCCTGT 300  
 ATGNNGN 307

(2) INFORMATION FOR SEQ ID NO: 583:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 272
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00648

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 583:

GATCTGAATT TTTTCTCCT TTTGGTTTTA TTTTGTGTTG TTATTTTGTG TTTTCTTTTC 60  
 TCCTTTTTTG GGGGTATTCA GAGTGGGCTG GGCCCTGGG CGAGACACAG CTACCTCTGT 120  
 TGGCATCTTT TTAATACCAG GAACCCAGCG GCTCTAGCCA CTGAGCGGCT AAATGAAATA 180  
 AAGTGGA AAAAANGG GAAAAACCA AAGGNTTAAA AACCCACNGG AATTTTNTTG 240



TNGAAANTNG AAAATAAAGG TTTCCNNGTA AA

272

## (2) INFORMATION FOR SEQ ID NO: 584:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 279
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00649

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 584:

```
GATCTATAACC AATTAAACAT TTTCATAGTT CTGCCTATTG TCCTTCCCTG AGGCTCCATT 60
GCTGCTTGGT GGCCATTCTC TGCCTTTTTC CAGTCACCTG AACAAATGACC CATCATCTCT 120
TGCTTGCTTG AAATCTTGCT GAAATGTTCT CATTTCTGTG TTGCTGTATG GGCTCGGGTG 180
GGATGTTTGT TGGCTCTGTT GTGTTTATTC ACCAATTTGT ACATTATTTG TTGTCCTTTA 240
CTACTGTAAA CAGTAAATAT AGTTTGGTAT TCTGTCAAA 279
```

## (2) INFORMATION FOR SEQ ID NO: 585:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 273
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00650

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 585:

```
GATCCCAGAC TGGTTCCTGA ACAGACAGAA GGATGTAAAG NATGGAAAAT ACAGCCAGGT 60
CCTAGCCAAT GGTCTGGACA ACAAGCTCCG TGAAGACCTG GAGCGACTGA AGAAGATTCG 120
GGCCCATAGA GGGCTGCGTC ACTTCTGGGG CCTTCGTGTC CGAGGCCAGC ACACCAAGAC 180
CACTGGCCGC CGTGGCCGNA CCGTGGGTGT GTCCAGNAAG AAATAAGTCT GTAGGCCTTT 240
GTCTGTTAAT AAATAGTTTT ATATACCTNN AAA 273
```

## (2) INFORMATION FOR SEQ ID NO: 586:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 275
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00651

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 586:

```
GATCTNCCAC GTCTCCATCT CAGTACACAA TCATTTAATA TTNCCCTGTC TTACCCCTAT 60
TCAAGCAACT AGAGGCCAGA AAATGGGCAA ATTATCACTA ACAGGTCTTT GACTCAGGTT 120
CCAGTAGTTC ATTCTAATGC CTAGATTCTT TTGTGGTTGT NGCTGGCCCA ATGAGTCCCT 180
AGTCACATCC CCTGCCAGAG GGAGTTCTTC TTTTGTGAGA GACACTGTAA ACGACACANG 240
AGAACAAGNN TAAACAATA ACTGTGTGTG TTAAA 275
```

## (2) INFORMATION FOR SEQ ID NO: 587:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 269  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00652

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 587:

```
GATCTTATGG ATAAACTCA GAAAGTGAAG GTGAAGAAAG AAACGGTGAA CTCCCCAGCT 60
ATTTATAAAT TTCAGAGTCG TCGAAAACGT TGACGTGTTA TAGATAAGCC TTGTCATTNT 120
GTATCAAAAA TCTGTTGTCG TTTTCTAGTA ACTTCAAATT CCATTACTCC AAATGGCATG 180
GTTTTCCGGT TTGTAACCAT AACTAAATTG TCAGTCTGAC ATTTAATGTC TTTCTATGGA 240
CAACATTAAA TCNCCCTCCC TTCTGTAA 269
```

## (2) INFORMATION FOR SEQ ID NO: 588:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 272  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00653

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 588:

```
GATCAAGTGG CTTTCCCTGG GACCTGCCCA GCTTTGAGAA TCTCTNCTCA TCCACCCTCT 60
GGCACCCAGC CTCTNAGGGA AGGAGGGATG GGGCATAGTG GGAGACCCAG CCAAGAGCTG 120
AGGGTAAGGG CAGGTAGGCG TGAGGCTGTG GACATTTTCG GAATGTTTTG GTTTTNTTTT 180
TTTTAAACCG GGCAATATTG TGTTCAAGTC AAGCTGTGAA GNAAAATATA TATCANTGTT 240
NNCCAATANA ATACAGTGAC TANCTGAACA AA 272
```

## (2) INFORMATION FOR SEQ ID NO: 589:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 268  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00654

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 589:

```
GATCGTCAAA TCTTTNCAA ATTTAATNTA TATGTGTATA TAAGGNAGTA TTCAGTGAAT 60
ACTTGAGANA TGTACAAATC CTTTCATCCAT ACCTGTGCAT GAGCTGTATT CTTACAGCA 120
ACAGAGCTCA GTTAAATGCA ACTGCAAGTA GGTTACTGTA AGATGTTTAA GATAAAAGTT 180
CTTCCAGTCA GTTTTCTCT TAAGTGCCTG TTTGAGTTTA CTGAAACAGT TTAATTTTGT 240
NCAATAAAGT TTGTATGTTG CATTTAAA 268
```

## (2) INFORMATION FOR SEQ ID NO: 590:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 267  
 (B) TYPE: nucleic acid

(C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00656  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 590:  
 GATCAAAAAT AAAATGTTAT TTTTAAAGTT TCTNTTTGAG ATTTTNCCTA AGTTTTGGTA 60  
 GATATTCTTA AGTTTTAGTG ACCTCAGTTT GGGAATTAAG TAAGCTAAAC ATTGTGTCCT 120  
 TATTATNAGT TATATAAAAC TATGCTTTAG ACTTTGTNAG AAACCTCTGC CCCACCTTGA 180  
 CTGACTGCTT TNCCATTTNT GGTTGTACAA AATGAATTCA CACTTTAATG CTATGGCCAC 240  
 CTTTAAATAA AGTACAGCGT GACTAAA 267

(2) INFORMATION FOR SEQ ID NO: 591:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 265  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00657  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 591:  
 GATCTAGATT CTACATGTTA CCATTGGTTT ATTCTTGTGC TTTCTGTATT TAAAACTTTG 60  
 GCTGTACTAA GCAAATGCAA GGTTATAATT TAGCTAATAG TAGTTTACAG ACAATTCTGA 120  
 TGATTATGAT TTCATTTGGT TTAAC TAAGC TGTACTAGTT CATTTCATAA GGAAATGATA 180  
 CTGTAGACAA ATGTAAATAA AGCCTGTGAG TCAAGCATCA AGTGGTGTTT GTTAGAAATA 240  
 ANCTAGAGAT TTTTAAANCTC TGAAA 265

(2) INFORMATION FOR SEQ ID NO: 592:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 264  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00658  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 592:  
 GATCTGGGGC CAGCTCACCG CTCACGTCCC CGTCATCGAC AACTCCACCC TNTACATCAG 60  
 TAGAGCATGC ACCATTTTGA ACGTGACATT TNCGGTAAAG TAAACTATGC TGATTCTCTCA 120  
 GACTTTAAAG ATGCTCTNNT TCTGTGTGTN AAATAGGACC CAAAGTGTCT CGATTGCTGA 180  
 AGTGATGAAC AAGTGGGAAA GCAGATTTGA GACTATTTCC TTATCTGAAT ATTTAAATGA 240  
 AATACAGCAT CTTTAAAANG CAAA 264

(2) INFORMATION FOR SEQ ID NO: 593:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 262  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00659

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 593:

```
GATCTTTTAA AAAGATGATG CAGTTCGTGA TTTATTGTGC TGTGTCTGGT CCTAAGTGGA 60
GCCAATTAAN CAGGTTTCAT ATGTATTTTN CCAGTGTTGA ATCTCACACA CTGTACTTTG 120
AAAATTTTCT TCCATCCTGA ATAACGAATA GAAGAGGCCA TATATATTGC CTCCTTATCC 180
TTGAGATTTC ACTACCTTTA TGTTAAAAGT TGTGTATAAT TGTTAAAATC TGTGAAAGAA 240
TAAAAAGTGG ATTTAAATTA AA 262
```

(2) INFORMATION FOR SEQ ID NO: 594:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 260  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00661

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 594:

```
GATCCATCCA AAAACAAGGA CTGCAGCCTA AATTCCAAAT ACCAGAGACT GAAATTTTCA 60
GCCTTGCTAA GGGAACATCT CGATGTTTGA ACCTTTGTTG TGTTTTGTAC AGGGCATTCT 120
CTGTACTAGT TTGTCGTGGT TATAAAACAA TTAGCAGAAT AGCCTACATT TGTATTTATT 180
TTCTATTCCA TACTTCTGCC CACGTTGTTT TCTCTCAAAA TCCATTCCTT TAAAAAATAA 240
ATCTGATGCA GATGTGTAAA 260
```

(2) INFORMATION FOR SEQ ID NO: 595:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 259  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00662

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 595:

```
GATCCCTTTA TGAAACCTTG TGAATAGATG AATGTTNTGGA GATGGCGACT AGTGGACAAC 60
AGAACAATAT TGGAATGGTG GTAATACGAG GAAATAGTAT CATCATGTTA GAAGCCTTGG 120
AACGAGTATA AATAATGGCT GTTCAGCAGA GAAACCCATG TCCTCTCTCC ATAGGGCCTG 180
NTTTACTATG ATGTAAAAAT TAGGTCATGT ACATTTTCAT ATTAGANTTT TTGTTAAATA 240
NNCTTTTGTA ATAGTCAAA 259
```

(2) INFORMATION FOR SEQ ID NO: 596:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 257  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00663

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 596:

GATCNNGGCT AAGCCAGCCA GCCNCCCGC GCCAGGNAAC ACAGGGCTGC AGGTGTCCTG 60  
 TCTCCCAGCC TCATCTGGCC GGCCTCCCCA AACATTTGCC TGTCCATCAG CTCTTCCTCC 120  
 TTTCGAGTCA TGTGGAAAGG GACAGGNCCA AGTGGCCTTG GTGTTTAAAT CTTGCCCTAA 180  
 ATTGTAATC ACATGATTAT TTAAAGTCAC TAGANATAAG TAAGCACAGC AATAAAGNTT 240  
 TAATGGAATA AAAGAAA 257

## (2) INFORMATION FOR SEQ ID NO: 597:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 252  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00664

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 597:

GATCCCAGAA TTCAACCTGT ATTTATAAAT GTATAATGTA TTTAGCTACT TTTTGGTTTA 60  
 AATGAACCTG TTGGGTTAGC TTGGTAAATG TTATAATTTT NACTATTTTC TACAAAGAAA 120  
 ATATTTTCTA ATTTAAGTTG GAGCTATCTG TGCAGCAGTT TCTCTACAGT TGTGCATAAA 180  
 TGTTTTNTCT ATAAATGAG CTAATGTATA ANATACTGCT GTATACCATA ATAANGATAG 240  
 TAATACTTGA AA 252

## (2) INFORMATION FOR SEQ ID NO: 598:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 250  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00665

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 598:

GATCATTAGT TGAATCGGTA TCATCTTCAC CAAATAAAGA AAGTAATGAA GAAGAGCAAG 60  
 TGTGGCACTT CCTTGGCAAG TGATTGAAAC ATCTGAAATT CTGCTGTCAA GATTTCCATC 120  
 TCTAAGGACT CCAAGTGCTA GAGACAAGGG GGTCTATGAG CATTTACTGA CTTCTGTGTA 180  
 AAACCTTCATT TTTTCAAAC TTTTGAGCTA TGCAATATAT AANTAAACAG TAAGAATTTT 240  
 AAATTACAAA 250

## (2) INFORMATION FOR SEQ ID NO: 599:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 250  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00666

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 599:

GATCCTTCTT CCTTCACTG GTCGTGCCTC CCANNAGGTG CAGAGATTCT TAGAAGAGGA 60  
 GGTGTATCCC CTGTTAAAC CATATGAAAG CGTGATGAAG GTGAAAGCAG AATTATGTCT 120

GTAGAGTTGG AAGAGAATTA AACGAAAATC ATTGTTAATT GCTGAGGCAT GAAAATTGTG 180  
 TTACTATAAT GCCTTATTTT ACCTCGAGAA TTGTTACCTT AAATTAGTAC AGCACTTTCT 240  
 TCTTCCCAAA 250

(2) INFORMATION FOR SEQ ID NO: 600:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 247
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00667

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 600:

GATCCTTCAG TTACATACAA TTTGTTTAAAT GAAATGTCAT GGCTCTGTTC ATATTTTNNT 60  
 NTTGTNCTTC CAATTGGTAT ATACAACCTT CAGAGCCTCT TGTATTTGGA AGGCTGGAAG 120  
 GGCCAGACT TTGGAATAGT GTCTTGGTTT CACTGTTTTN GTTTTGATTT TTTTTTTGTT 180  
 TNGATTTTTT TAAACTAAA GCTATATAAA GCTTGNGGAT TAANCAGANT AAATTCCTAA 240  
 ATTTAAA 247

(2) INFORMATION FOR SEQ ID NO: 601:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 246
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00668

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 601:

GATCCAGGGT GTGTGTGAGT TGAGGGTGGG TGGAGGGGTT TGCAGTGTGG GAATGTGGCC 60  
 CTGCAGTTGA CCTGAGCTGC TTCACATGGT TGTCCATTCT GGGGCTTAAA GAACTGGGAC 120  
 CAGACCAAGT AGAGGCCTTG GTGCTGNTTG GGGTGGGGCC TGCAGANTCT TAGTTACTGA 180  
 TTTCATTTTC AATAAATGTA GGTTTGTTAC ATGAGTTTCC CAATTAAAAA AAAAATGACT 240  
 TCTAAA 246

(2) INFORMATION FOR SEQ ID NO: 602:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 284
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00669

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 602:

GATCAGAATT TCACCAGGGA GTAAAATTAC CTGAAAACGT AAGANGTTTT AAACAGCTTT 60  
 TCACACAAAT TAGATGCAAC TGTTCCCATG TCTGAGTACT TATTTAAAAG AAAGGTAAAG 120  
 ATTGGCCTGT TAGAAAAAGC ATAATGTGAG CTTTGGATTA CTGGATTTTT TTTTTTTTNA 180  
 AACACACCTG GNGNGGNCAT TTGAAAACAC TNTTCTTACC CTCGANCCCT GATGTGGTNC 240  
 CATTATGTAA ATATTTCAAA TNTTAAAAAT GTATATATTT GAAA 284

## (2) INFORMATION FOR SEQ ID NO: 603:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 249
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00670

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 603:

```
GATCGAGGTG GAGAAGCCCT TTGCCATCGC CAAGNAGTAG GGCACAGGGA CATCTTTCTT 60
TNAGTGACCG TCTGTGCAGG CCCTGTAGTC CGCCACAGGG CTCTGAGCTG CACTNGCCCC 120
GGTGCTGGCA TCTGGTGGAG CGGACCCACT CCCCTCACAT TCCACAGGCC CATGGACTCA 180
CTTTTGTAAC AAACCTCCTAC CAACACTGAC CAATAAAAAA AAATGTGGGT TTTTTTTTTT 240
TTAAATAAA 249
```

## (2) INFORMATION FOR SEQ ID NO: 604:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 244
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00671

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 604:

```
GATCGGAATG GTGGAGAACT TCAACCAGGC ACTCAAGGAA ATTGGGGATG TGGAGAACTG 60
GGCTCGGAGC ATCGAGCTGG ACATGCGCAC CATTGCCACT GCACTGGAAT ATGTCTACAA 120
AGGGCAGCTG CAGTCTGCCC CTTCTAGCC CCTGTTCCCT CCCCCAACCC TATCCCTCCT 180
ACCTCACCCG CAGGGGAAAG GAGGNAGGCT GACAAGCTTG AATAAACAC AAGCCTCCGT 240
TAAA 244
```

## (2) INFORMATION FOR SEQ ID NO: 605:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 244
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00672

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 605:

```
GATCCCCTTT CCGTAAAAGC GTGTAACAAG GGTGTAAATA TTTATAATTT TTAATACCTG 60
TTGTGAGACC CGAGGGGCGG CGGCGCGGTT TTTNATGGTG ACACAAATGT ATATTTTNCT 120
AACAGCAATT CCAGGCTCAG TATTGTGACC GCGGANACA GGGGACCCCA CGCACATTCC 180
GTTGCCTTAC CCGATGGCTT GTGACGCGGA GAGAACCGAT TAAAACCGTT TGAGAAGCTC 240
CAAA 244
```

## (2) INFORMATION FOR SEQ ID NO: 606:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 242  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00673  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 606:  
 GATCTTTCCC ATNTCTACCT AAGTCAGCTT TCATCTTTGT GGATGGTGTC TCCTTTACTA 60  
 AATAAGAAAA TAACAAAGCC CTTATTCTCT TTTTNTTGT TCCTCATTCT TGCCTTGAGT 120  
 TCCAGTTCCT CTTTGGTGTA CAGACTTCTT GGTACCCAGT CACCTCTGTN TTCAGCACCC 180  
 TCATAAGTCG TCACTAATAC ACAGTTTGT ACATGTAACA TTAAAGGCAT AAATGACTCA 240  
 AA 242

(2) INFORMATION FOR SEQ ID NO: 607:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 245  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00674  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 607:  
 GATCCGGGTG GATGCACAGC CCGTCAAGGT CTATGCTGAC GNCTCCCTGG TCTTCCCCCT 60  
 GCTTGTGGCT GAAACCTTTG CCCAGAAGAT GGATGCCTTC ATGCATGAGA AGAACGAGGA 120  
 CTGAGCGGCT GCGGTCCCAG GAAGGTCTTA CCCCCTCTNC TATTTATNAA TTTGCAGACC 180  
 CAGCCNTCC CCTACTTTT GGTCAGCTAC GNCTCTAGAA TAACNCCCGG TATCTGAAGT 240  
 CAAA 245

(2) INFORMATION FOR SEQ ID NO: 608:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 245  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00675  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 608:  
 GATCTCTACC ATTTAATTAA GAAAGCAGTT GCTGTTCGAA AGCATCTTGA GAGGAACAGA 60  
 AAGGATAAGG ATGCTAAATT CCGTCTGATT CTAATAGAGA GCCGGATTCA CCGTTTGGCT 120  
 CGATATTATA AGACCAAGCG AGTCCTCCCT CCAATTGGA AATATGAATC ATCTACAGCC 180  
 TCTGCCCTGG TCGCATAAAT TTGTCTGTGT ACTCAAGCAA TAAATGATT GTTTAACTAA 240  
 ACAA 245

(2) INFORMATION FOR SEQ ID NO: 609:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 241  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single



(D) TOPOLOGY: linear  
(vii) IMMEDIATE SOURCE:  
(B) CLONE: HUMGS00676  
(ix) FEATURE:  
(D) OTHER INFORMATION: "N"=unidentified base  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 609:  
GATCTAAAAAT GTCACATTCA GATTTTNAGG AAGAAAATCT TCATTACAGT GGAGCACAAA 60  
TNTTCCATAC AAGACATCAT TGAGGNAGCA TGCTGTCCCC TTCTAACCTG AAACACATTC 120  
TTTCCCATCC NGGTTGGGCT TCTNTACCNC CTTATTAATT TATGAACCNG AAGTTGCTTG 180  
AAGTGTTTTG GGCTTAATAA ATGGGGTGAA AGTATAGGTA GCAGTAACAC CTACATGNAA 240  
A 241

(2) INFORMATION FOR SEQ ID NO: 610:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 240  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear  
(vii) IMMEDIATE SOURCE:  
(B) CLONE: HUMGS00677  
(ix) FEATURE:  
(D) OTHER INFORMATION: "N"=unidentified base  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 610:  
GATCTTCTGA GGTCAGGAGT TTGAGACCAG CCTGACCAAC ATGGAGAAAC CCAGTCTCTA 60  
CTGAAAATAC AAAATTAGCC GGGCATGGTG GTGCACGCNT GTAGTCCCAG CTA~~CT~~TGGGA 120  
GGCTGAGGCA GGAGAATCGC TTGAACCCAG GAGGCGGAGG TTGCGGTGAC CCTCCAGCTT 180  
GGGCAACATG TTATGANTGA AACTCCATCT CAAAAAATAA AAAAAAAAAA GGGNNGCAA 240

(2) INFORMATION FOR SEQ ID NO: 611:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 240  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear  
(vii) IMMEDIATE SOURCE:  
(B) CLONE: HUMGS00678  
(ix) FEATURE:  
(D) OTHER INFORMATION: "N"=unidentified base  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 611:  
GATCTGTGAA GGCTTCCCTG ACCNNTGCCC AGGAAGAGTT CACTGGTCGC TCTGTTGTGC 60  
CCCACAGCAC TTTGTTATAC CTCTGCCACA CACTTCACGC AGCGCGTTGT AACTCATGTG 120  
TTTACATGTC TGTCCCNCCA GACTGTNAGC TCCTTGAGGG CAGGGACTGT ACATTCTCCA 180  
GCTCTGTGTC CCCAGGGCCT GGCACATTGT AGACGCTTAA TAAATTTCTG TTAAATGAAA 240

(2) INFORMATION FOR SEQ ID NO: 612:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 242  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear  
(vii) IMMEDIATE SOURCE:  
(B) CLONE: HUMGS00679  
(ix) FEATURE:  
(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 612:  
 GATCAGCTCC TTGACCTCTG AGGGGCAGGN GTGCTTCCTG GTGTGTGTAT TAGAATCCCT 60  
 TCCTGCCTTG TTTTCATGGCA GTGAAATGCC TCTTGGTCCT GTCCAAGTGT ATCTTTTCACT 120  
 GATTTCTGNA TCATGNTCTA GTTGCTTGAC CCTGCCANAT GGGTCCAGTG TTCATCTGAG 180  
 CATAACTGTA CTAAATCCTT TTTCCATATC AGTATAATAA AGGAGTGATG TGCAATAGCA 240  
 AA 242

(2) INFORMATION FOR SEQ ID NO: 613:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 239  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00680

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 613:

GATCGCAACA ATNAGCCATC CACATNCGTT TTTCAGGGTC ACACCCAAGT AATTGAAAAG 60  
 ACACTCCTCC ACTTATCCCC TCCNTAATAT GGCTCTNCGC ATGCTGAGTA CTGGACCTCG 120  
 GACCAGAGCC ATGTAAGAAA AGGCCTGTCN CCTGGAAGCC AAAGGACTCT GCATTGAGGG 180  
 TGGGGGTAAT TTTTCTTGG NGGGCCCAGT TAGTGGGCTT NCGNANTGTN TGTATGNGN 239

(2) INFORMATION FOR SEQ ID NO: 614:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 238  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00681

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 614:

GATCCAAATA AACAGACCCC GTCTGGCAAG AAATGCATTG CAGCCAAAAA AATTAAACAG 60  
 TCGGTGGGAA ACAAAGCAT GTCCTTTCCA ACTGGAAAGT CAGACAGAGG CTCAGGTAC 120  
 AACTGGCCAC AGAGATAGTC CTGGAAGACA CGTGGCGCCT GTGGACCGGA AGCACCAAAT 180  
 GCTGGTGCTG CTTTTGTACA TACATATTTT TAAACCATTAA AAATTCTTCC TGAAGAAA 238

(2) INFORMATION FOR SEQ ID NO: 615:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 254  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00682

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 615:

GATCCATAGT CAGAAAAGTT ACTGCAGCTT AAACAGGAAA CCCTTCTTGT TCAGGACTGT 60  
 CATAGCCACA GTTTGCAAAA AGTGCAGCTA TTGATTAATG CAATGTAGTG TCAATTAGAT 120  
 GTACATTCTT GAGGTCTTTT ATCTGTTGTA GCTTTGTCTT TTTCTTTTTC TTTTCATTAC 180  
 ATCAGGTATA TTGCCCTGTA AATTGTGGTA GTGGTACCAG GAATAAAAAA TTAAGGAATT 240

TTTAACTTTT CAAA

254

## (2) INFORMATION FOR SEQ ID NO: 616:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 247
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00683

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 616:

```
GATCAAAGAA AGAAGGCATA CGCNGATTTC TACAGAAACT ATGATGTCAT GAAAGATTTT 60
NAGGAGATGA GGAAGGCTGG TATCTTTCAG AGTGTAAGT AATCTTGGAA TATAAAGAAT 120
TNCTTCAGGT TGAATTACCT AGAAGTTTGT CACTGACTTG TGTTCCCTGAA CTATGACACA 180
TGAATATGTG GGCTAAGAAN TAGTTCCTCT TGATAAATAA CCANTTAACA AATNCTTTNG 240
ACAGAAA 247
```

## (2) INFORMATION FOR SEQ ID NO: 617:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 235
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00684

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 617:

```
GATCTGCACC TGAGCCAAAG AAACCTGAGG AAAATCCAGC TTCTAAGTTC AGTTCTGCAA 60
GCAAGTATGC TGCTCTCTCT GTTGATGGTG AAGATGAAAA TGAGGGAGAA GATTATGCCG 120
AATAGACCTC TACATCCTGT GCTTTTNTCC TAGTTTCTCT CCACCCTGGA ACATTGCGA 180
GCAAATCAAA ACCTCTATCC AGACAAGACA AAATAAACT CAACATCTCC TGAAA 235
```

## (2) INFORMATION FOR SEQ ID NO: 618:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 238
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00685

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 618:

```
GATCTGTTCC TTGGCAGTGG ACTCAGAAAG CCAACATGTG GTCCTCCCA GCCCATAACC 60
AGTATTTTTC CTGCTTCTAA ATACAAATNG GTTGGTTTTA ACTTCANATT GANCTTACTG 120
TAGCCTCAAA TGATTTCCTC CCTCCGCTC CAGGAAGAAA GAATGTNACT GCCTTAATAA 180
AAAATGAAAA GAGAATGATG CTCAAAATCT TTCCAAATAA AATGTTCCCT ATATTAAA 238
```

## (2) INFORMATION FOR SEQ ID NO: 619:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 234

(B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00686  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 619:  
 GATCCGCCCT CGAATGGACA CATTACCAGT GAAGGGGCAT TTNTNGTCAA TGTAGGTGCC 60  
 CTCAATAGCC TCCTTGGGTG TTTTGAAGCC CAGACCGATG TTCTTGTAGT ACCGCGGGAG 120  
 CTTCTCCTTG CCAGTTTCTC CCAGCAGGAC CCTCTTCTNG TTTTGAAAGA TGGTCGGCTG 180  
 CTTTTGGTAG GCACGCTCAG TCTGAATGTC CGCCATCTTC CCGCCCGGCT GAAA 234

(2) INFORMATION FOR SEQ ID NO: 620:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 251  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00687  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 620:  
 GATCCCCAAG CCTGGCAAGG GAATTTNTTC AACTCCCTGC CCCCCAGCCC TCCTTATCAA 60  
 AGGACACCAT TTTGGCAAGC TCTATCACCA AGGAGCCAAA CATCCTACAA GACACAGTGA 120  
 CCATACTAAT TATACCCCCT GCAAAGCCCA GCTTGAAACC TTCACTTAGG AACGTAATCG 180  
 TGTCCCCTAT CCTACTTCCC CTTCTAATT CCACAGCTGC TCAATAAAGT ACAAGAGCTT 240  
 AACAGTNNA A 251

(2) INFORMATION FOR SEQ ID NO: 621:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 241  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00689  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 621:  
 GATCCATCAT CCGNCAATGT TAAAAGGCC CGTGCGCGAG GGCGACGTGC TCACCCTTTT 60  
 GGAGTCAGAG CGAGAAGCCC GGAGGTTGCG CTGAGCTTGG CTGCTCGCTG GGTCTTGGAT 120  
 GTCGGGTTTCG ACCACTTGGC CGAGGGGAAT GGTCTGTAC AGTCTGCTCC TTTTTTTTGT 180  
 CCGCCACACG TAACTGAGAT GTCCTTTTAA ATAAAGCGTT TGTGTTTCAA GTTAACTCAA 240  
 A 241

(2) INFORMATION FOR SEQ ID NO: 622:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 231  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00690

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 622:

```
GATCCTCCTG CCTNGGCCTC CAAAAGTGCT GGGATTACAT GCATACCTGA NCTACTGAGC 60
ACTTTNATCT TGAATGAGTG TTGGATTTTG TCAAATGCTT TTCCTGTACC TATTAATACA 120
ATCATGATTT TNNCCTCTTT AGTATGTTGA TATGATGGGT TACATTAATT GATNNTCAAA 180
TGTTGAATCA GTCTNGCATA CCTGGAATAA ATCCCACTTG GTCATAATAA A 231
```

(2) INFORMATION FOR SEQ ID NO: 623:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 231  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00691

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 623:

```
GATCTATGAA ATCTGTGTAG GTTTTAAATA TTTTAAAAAT TATAATACAA ATCATCAGTG 60
CTTTTAGTAC TTCAGTGTTT AAAGAAATAC CATGAAATTT ATAGGTAGAT AACCAGNTTG 120
TCNCTTTTTG TTTAAACCAA GCAGTTGANA TGGCTATAAA GACTGACTCT AAACCAAGAT 180
TCTGCAAATN NTGATTGGNA TTGCACAATA AACATTGCTT GNTGTTTTAA A 231
```

(2) INFORMATION FOR SEQ ID NO: 624:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 231  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00692

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 624:

```
GATCCCATTT AGGAANCGGC ATTCACCTCA GAAGGTACTT TTTAACTGCT CAGTTTTTGA 60
CTATTTTAAA TAGTTTGCTG AAAACTCCTG ATAACACTTG CTACATATCA TGTTTTAATT 120
GCTTGACAG TTAACCTTTA ATTTTATTTA GTAAAGTGTA TCAAAGTAGG ACTTTTTTGA 180
ATTGTAAATA GGTGGTTTTA TTAAATAAAA GTCAATGTAA AAATTGTTAA A 231
```

(2) INFORMATION FOR SEQ ID NO: 625:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 230  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00693

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 625:

```
GATCCGGAGG GAAATGTGTT AGAGGGTCTG GAAAATTCAG TGCTTTTGAG TTAATTGTTT 60
TTATTAAAAA TTTCTCACA AAAGAGAGTC CTCAAGTTGT GGCTGTTCTT GGGAAAGGGG 120
```

TCACCGTGTC TGACAAAGTG TAACTTTAAA AAGCACGTTG ATTTTTTACA AATGTAAGTG 180  
 TGCTTGGGAA TTCCTTAAAT TTTGTGCAAT AAACATTTTT TTGGAAGAAA 230

(2) INFORMATION FOR SEQ ID NO: 626:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 202
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00694

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 626:

GATCCAATCA TATTTNCTGT AGGGTGGAGG AGGTTTCAGA CCATCCCGCT CTGTTATATC 60  
 GAAGACCACA ATGGAAGACA AAGGCTTCTA AAGTATACCC CACAGCACGT GCATCGCGGA 120  
 NAGCCTNCTT GGGATAAAAT ATGTTTACAA TAACTTGCCT ATTGCTGAGA TTAAACCTTA 180  
 CAGGCTGCGT TATTTTAGCA AA 202

(2) INFORMATION FOR SEQ ID NO: 627:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 226
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00695

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 627:

GATCCAATTGT ATCAGTACCT CACAATCAGA GTTGGCAAAT GATGGATGAG TGATTCAAGC 60  
 AGTGCACCCG GTGGAAGCTG AAATCCATCT GTGAATGGAA CTGAAGTGAA CGTGAATATG 120  
 CTGACTATAT CCTGGAAGCA TTTTATACCT ATCTTGAAAT TTCAACANAC TGGCTTTTGC 180  
 CAGTTAATCC AGCTGTCTTT CAAGAATAAA AGTTGGGGTT TTCAAA 226

(2) INFORMATION FOR SEQ ID NO: 628:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 226
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00696

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 628:

GATCACCTGA GGTCAAGAGT TCGANACCAG CCTGGCCAAC AGGGTGAACC CCGTCTCTAC 60  
 TAAAAGTACA AAAATTAGCT GGGCGTGGTG GCGGACGCTG TAATCTCAGC TACTTGGNAG 120  
 GCTGAAGCAG GAGAGGTGCT GGAACCTGGN AGGCGGAGGT TGAAGTNAGC CGAGATTGCC 180  
 CTATTGCACT CCAGCTCGGG CGNCAACTGC AAGACTCCAT CTCAAA 226

(2) INFORMATION FOR SEQ ID NO: 629:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 226

(B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00697  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 629:  
 GATCTGTTAA TTCCTATCT AATAAATGCC TTNAATTGTN CTCATAATNA AGAATAAGTA 60  
 GGTATCCCTC CATGCCCTTC TGTAATAAAT ATCTGGAAAA AACATTAAAC AATAGGCANA 120  
 TATATGTNAT GTGCATTTCT AGAAATACAT AACACATATA TATGTCTGTA TCTTATATTC 180  
 AATTGCAAGT ATATAATAAA TAAACCTGCT TCCAAACAAC AATAAA 226

## (2) INFORMATION FOR SEQ ID NO: 630:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 226  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00698  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 630:  
 GATCAGAGTA ATTCTTTTGT ACATTGAAAT NAGGGGCTTG GTTTAAAAAA AGACCTTTCC 60  
 CTCTCCCTGC CCCTAGAACA ACCAGTATTA GAAGGTGCCA CCATTGGTGC TGCCTTCTNT 120  
 TCCCACAGCC TGTAAGTCAG TGTTTTGTAC TTCCTGAAT TGTGATGGNT AGAACTTCG 180  
 TGGGTAGNNN NTGGGAATCA TCCNGTTAAA CAANACGGGN TTAAAA 226

## (2) INFORMATION FOR SEQ ID NO: 631:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 222  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00699  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 631:  
 GATCCTTGTT GTACTGAGCA GTTTCTTTGG GGCTTTTTCT TTCTGGGAAG CGGGAGGGAA 60  
 AGGAGCAAGG TGTCATCTG CTCTTCATTT GTATTTTGGT CCCAAAATGT AAATACAATT 120  
 TTTTATGTTA CTTTTTTGTG GTAAGTACCG AGATGAATAT TTTAATTAGA TAAGTTATAT 180  
 GAAAAGGAAA ATTCCATGTC TAAATAAAAA ACAAACTCCA AA 222

## (2) INFORMATION FOR SEQ ID NO: 632:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 222  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00700  
 (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 632:

```
GATCTTCTGG ACAAACCTTCT GCGATACGAC CATCAACAGA GACTGACTGC CAAANAGGCC 60
ATGGAGCACC CATACTTCTA CCCTGTGGTG AAGGAGCAGT CCCAGCCTTG TGCAGACAAT 120
GCTGTGCTTT CCAGTGGTCT CACGGCAGCA CGATGAAGAC TGGAAAGCGA CGGGTAATGC 180
GGCATTGATG CTTNCCAATA AAACCAACCA ACCAAACACA AA 222
```

(2) INFORMATION FOR SEQ ID NO: 633:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 221  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00701

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 633:

```
GATCCACCCA GTTCTTTAGG CAACCACTGA TAGCATTTTC TTAAGTATTC TTCCAGATAT 60
CGTCTATGCA TATGTAAAAG TATCTGNCTT TCTCCNTTTA AAAACACAAT TGGNAATATA 120
TCATACTNGC TGGTTTGCAC CTNGCTTTTT TTGCTTAATA TATCTAGTTT ATAATGNCCN 180
AATGNGCAAA TTTTNGCATC NGCCCTAAAT ATCTACTGGN N 221
```

(2) INFORMATION FOR SEQ ID NO: 634:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 220  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00702

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 634:

```
GATCACTCGT TTAAGTCCTT AGTTGTATGT NATCTCTTCT CTAGCAGGAA TTGGCAAAC 60
TTTTTGTAAG GGGGTAGAAA GTGAAGATTT TAAGGCTTTG CAGGCCATAT ATCCTCTNCT 120
GCAAATNCTC AGCCCTGCTG TTGTAATGTA AAANCTNCCA CAGACACTAC ATGAACACGA 180
ATGAGTGTGG CTGGTGTTC AATAAACTT TATTTACAAA 220
```

(2) INFORMATION FOR SEQ ID NO: 635:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 220  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00703

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 635:

```
GATCATCAAA CCAGTCCACA AGCACAGGGA GATGCGTGGG CTGACATCTG CAGGCCGAAA 60
GAGCCGTGGC CTTGGAAAGG GCCACAAGTT CCACCACACT ATTGGTGGCT CTCGCCGGGC 120
AGCTTGGAGA AGGCGCAATA CTCTCCAGCT CCACCGTTAC CGCTAATATA NGTAAAGTTT 180
NGTAAATTC ATACTTAATA AACAATTTAG GACAGTCAAA 220
```



## (2) INFORMATION FOR SEQ ID NO: 636:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 219
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00704

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 636:

```
GATCCACATC TCAAAGAAGT GGGGCTTCAC CAAGTTCAAT GCTGATGAAT TTGAAGACAT 60
GGTGGCTGAA AAGCGGCTCA TCCAGATGG CTGTGGGGTC AAGTACATCC CCAGTCGTGG 120
CCCTCTGGAC AAGTGGCGGG CCCTGCACTC ATGAGGGCTT CCAATGTGCT GCCCCCCTCT 180
TAATACTCAC CAATAAATTC TACTTCCTGT CCACCTAAA 219
```

## (2) INFORMATION FOR SEQ ID NO: 637:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 215
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00705

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 637:

```
GATCCTCTCT CGACTNGCCA TACATTTCTT TCACAGCATT TACATAGTCC ATGATAGTTT 60
ACTTGTGGGA TTATTTGGTT AATCTTTGCC TTTAACACCA GGGTTCCTTG GGTGAAGGAG 120
CTTCTTTATC TNGGTAACAG CATTATTTCA AGCATAACTN GTAATATAGT NATATTACAT 180
ATATANCATA TATATATATN NCANANCANA TATAN 215
```

## (2) INFORMATION FOR SEQ ID NO: 638:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 214
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00706

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 638:

```
GATCTGGTTT CTTAGCAAAT TTCCAGTAG GATGTCATGT AAGTNCCTTC CCCCTCTTAG 60
AGATTGAAGG CTGTAAGAGT CCAGATGGTG GAGCCAGGCT GTCTGGGTTC AAATGCCATC 120
TTTGACACTT GCAAGCTAAA TNACATTACT CAAATTAATC GTTCTGCACT TCAGCTTCN 180
TGTCTATCAA ATAAAAAGAA TAGTACCNGC CAAA 214
```

## (2) INFORMATION FOR SEQ ID NO: 639:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 215
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single

(D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00707  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 639:  
 GATCATTGTA GATGANCTGA AGCAAGANGT TATCAGTACC AGCAGCAAGG CAGAACCACC 60  
 CCAGTGCACC TCCCTGGCCT GGNCTGCTGA TGGCCAGACT CTGTTTGCTG GCTACACGGA 120  
 CAACCTGGTG CGAGTGTGGC AGGTGACCAT TGGCACACGC TAGACGTTTA TGGCAGNGCT 180  
 TTACATGTGG GGAATAACN TGGCTTTTCT GTAAA 215

(2) INFORMATION FOR SEQ ID NO: 640:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 220  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00708  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 640:  
 GATCAAACCA AGGCCCAGGC TGCAGCCCCA GCTTCAGTTC CAGCTCAGGC TCCCAAACGT 60  
 ACCCAGGCCC CTACAAAGGC TTCAGAGTAG ATATCTCTGC CAACATGAGG ACAGAAGGAC 120  
 TGGTGCAGCC CCCCACCCCC GCCCCTGGGC TACCATCTGC ATGGGGCTGG GGTCCCTCCTG 180  
 TGCTATTTGT ACAAATAAAC CTGAGGCAGG ATTTGTAAAA 220

(2) INFORMATION FOR SEQ ID NO: 641:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 210  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00710  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 641:  
 GATCGAGAAC CACATCCTCA AGCTCTTCGA GAGCAACCTG GTGCCCCGCTA AACCCCTGAGT 60  
 GAAGGCCGCC TGCCGGGGAC TCAGACACTC AGGGAACAAA ATGGTCAGCC AGAGCTGGGG 120  
 AAACCCAGAA CTGACTTCAA AGGCAGCTTC TGGACAGGTG GTGGGAGGGG ACCCTTCCCA 180  
 AGAGGAACCA ATAAACCTTC TGTGCAGAAA 210

(2) INFORMATION FOR SEQ ID NO: 642:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 208  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00711  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 642:

GATCTGGTTT TATTCCTGTA ATTCAGCCAC CTGATTTTGT GAGGGGGGGG AATAATATGT 60  
 GGTTTTTGTG CAAACATGTT TCTCAGTGTG TTGTNATTTT GGAAAAAATG AGGGGAGGGA 120  
 GTTTGGCAAG AATGGAGAAA ATGAATGAAG AAGGCCTAAT CTCTCTCTTT TTCAGTNAAT 180  
 AAATGGAACA CCATTTCTGG ATTCTAAA 208

(2) INFORMATION FOR SEQ ID NO: 643:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 206
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00712

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 643:

GATCTGTACA TTGTAAAACA CCATTCAAGT GTCAGAATCA TTATTTTCCA CCACTTATCA 60  
 TGGTGCTTGA CAAGTCTTCC CAATAAATAC TGAATGAACA AATGAATGGC AGAAACATTA 120  
 AAATGAACAC TATGGGGAAA GGGGAAGAGA GGCAGAATCA GAAATTATCC NGAATAAATA 180  
 TTTATNCCAT TTGTCATCCN NCNAAA 206

(2) INFORMATION FOR SEQ ID NO: 644:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 244
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00713

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 644:

GATCTATGTG GTGAAAATGC ACAGGAGCTT GGTAGACTGC GGGGGAAAGA GAGAGCTCCT 60  
 TTCGCCATGT TTTACCAGTN TGCTGTTATA ACCTCTTAGG TTGTATCCTT TAATTTCCAG 120  
 CCTTTTAGGT TAGTTTCTGT AACAGAACAA GTGAGTCTGG GATGAAGTCC TCAAAGTACT 180  
 TCAAATGGTA ATTTTTTTGT TTTTGTAAATA GCTNAACAAA TAAACCNAGG GTTTCCTATAT 240  
 TAAA 244

(2) INFORMATION FOR SEQ ID NO: 645:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 231
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00714

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 645:

GATCTATGAA TGANAGGAGG GCAGACCACA TTGCTTTTNA CATCCATTTC CCCTCCTTCC 60  
 CATGGGCAGA GGACCAGGCT GTAGGAAATC TAGTTATTTA CAGGAACTTC ATCATAATTT 120  
 GGAGGGAAGC TCTTGGAGCT GTGAGTTCTC CCTGTACAGT GTTACCATCC CCGACCATCT 180  
 GATTAAAATG CTTCTCCCA GCATAGGATT CATTGAGTTG GTTACTTCAA A 231

## (2) INFORMATION FOR SEQ ID NO: 646:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 200
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00715

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 646:

```
GATCTACATC TTTTCTAAA GAAAAGTGGG GCTTGCCTCC AGTTCAATTC ACAAGAGCAT 60
TTTCCCTCCC ATGCCACCT TTTCTTGTGG CTGTCGCTAG GAAGGATGCA GAGGCTGTGT 120
GGTTTACCAA ATGCCTTAAC TTAGCAGTGA ATGACAACTG TCAAACACAT GTTGAGGGGA 180
AATTTTACT GATTCACAAA 200
```

## (2) INFORMATION FOR SEQ ID NO: 647:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 200
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00716

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 647:

```
GATCTGCCGC AAGTGCTATG CTCGCCTTCA CCCTCGTGCT GTCAACTGCC GCAAGAAGNA 60
GTGTGGTCAC ACCAACAACC TGCCTCCCAA GAAGNNGGTC AAATAAGGTT GTTCTTTTCT 120
TGAAGGGCAG CCTCCTGCCC AGGCCCGGTG GCCCTGGAGC NTCAATAAAG TGTCCCTTTN 180
ATTGACTGGG GNNGNANAAA 200
```

## (2) INFORMATION FOR SEQ ID NO: 648:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 199
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00717

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 648:

```
GATCCAGAAG GGGTTTGGTC TGGGACTTCC TTGCTCTCCC TCTTCTCAAG TGCCTTAATA 60
GTAGGGTAAG TTGTTAAGAG TGGGNAGAG CAGGCTGGCA GCTCTCCAGT CAGGAGGCAT 120
AGTTTTTACT GAACAATCAA AGCACTTGA CTCTTGCTCT TTCTACTCTG AACTAATAAA 180
TCTGTTGCCA AGCTGGAAA 199
```

## (2) INFORMATION FOR SEQ ID NO: 649:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 206
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00718  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 649:  
 GATCTTTTGT CCTCACTGCT TTCTAATGGG GAGGGCTGAG GGTTCCCTGT CCCCACAGCA 60  
 GGTATGTTGG GNTCTGCCCC AGCCCCACAC TTGCTCTGAA AACCAAGTGN NAGAGCCCCCT 120  
 TCCCCTTGTT TTTATTTTAC TGTTATAATA ATTATTAACT TCCTTGTAAT AGAAATAAAG 180  
 TTTGTAAGTT GAGTTCAGCT CAGAAA 206

(2) INFORMATION FOR SEQ ID NO: 650:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 201  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00719  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 650:  
 GATCCTCGTT TCTNGGTTT TGGTGATGTT GGAGGAGTAC CCCCCAGCCC ACCGCCCCGA 60  
 TTCCTTTTGG CTTCTGGTTT GGAGCTCCGG ACCAGGACCT TCGTCCTGGT CAGTTTTTAA 120  
 ATAATNATTT AGCAGTGTA CTTTTAAACC TGC GTGACAT CTACANNNG CCAATAAAG 180  
 AAAGAGGAAG CCACGGTCAA A 201

(2) INFORMATION FOR SEQ ID NO: 651:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 198  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00720  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 651:  
 GATCTGTTAT CTAGCTGAGT TCATTTTCATC TCTCCCTTTT TTATATCAAG TTTGAATTTG 60  
 GGATAATTTT NCTATATTAG GTACAAATTTA TCTAAACTGA ATTGAGAAAA AATTACAGTA 120  
 TTATTCCTCA AAATAACATC AATCTATTTT NGTAAACCTG TTCATACTAT TAAATTTTGC 180  
 CCTAAAAGAC CTCTTAAA 198

(2) INFORMATION FOR SEQ ID NO: 652:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 197  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00721  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 652:  
 GATCTTAAAC ATCGGTCAGA TGAGTCATAC ATTGGGTAT TTTTATATA CATGTATACA 60

CAAAATATTT CAAATTGAAA GCAACATCTT AATGGATTCA AAACCTATTAC AAGCTGTTGT 120  
 CTAAACAGG TGAGAAAAAA ATTTATAACT GTAAAAANCA ATGCACATAT TGATATTTAA 180  
 AATGCGTAAT TAAGAAA 197

(2) INFORMATION FOR SEQ ID NO: 653:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 197
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00722

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 653:

GATCTGGACT GTCCTGGCAT CGAACTCTCC CTCTGTGTGT AATTGGAGGA GACCACAAGC 60  
 TGTTGTTTTG GGTGACTGAA GTATAAAGTG TTTNCTGTAC CTTAGATTCA CAAACTTTGT 120  
 ATTTTNAGTA CATATTTNNA AGAATTTCTA TAGTACATAT NTNNAAGAAT TTTNATATCA 180  
 AATATAACCGT ATA CTNN 197

(2) INFORMATION FOR SEQ ID NO: 654:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 201
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00723

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 654:

GATCACCGCC GCGAGTAAAA AAGGCTCCAG CCCAGAAGGT TCCTGCCCAG AAAGCCACAG 60  
 GCCAGAAAGC AGCGCCTGCT CCAAAAGCTC AGAAGGGTCA AAAAGCTCCA GCCACGNNN 120  
 GCACCTGCTC CAAAGGCATC TGGCAAGAAA GCATAAGTGG CAATCATAAA AAGTAATAAA 180  
 GGTTCCTTTT GACCTGTAA A 201

(2) INFORMATION FOR SEQ ID NO: 655:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 199
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00725

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 655:

GATCTGCAGT TTAAGTTGCC ATGCTGCTAG GAAATTGTCC TTTNCTTTC TAGCTGTAA 60  
 CCTACTTCCT GGAAAAAGTA GTAGCTCTCT GTAGCATTAT GGAGTTTCAG TGGAACCAAA 120  
 TTTTGGCCAT TAAAACTGG CATTATACTG AACTATACAT TGAGAAATCA ATCAAAATAA 180  
 AANTTTTINAC TTTCAAAA 199

(2) INFORMATION FOR SEQ ID NO: 656:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 196  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00726  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 656:  
 GATCTGGTTT CTAGCAAATT CCCAGTAGGA TGTCATGTAA GTCCTTCCCC CTCTTAGAGA 60  
 TTGAAGNTGT AAGAGCCAGA TGGTGGAGCA GGCTGTCTGG GTTCAAATGC ATCTTTGCAC 120  
 TTNAAGCTAA ATGACATACT CAAATTAATC GTCTGACTCA GTTCCTTGCT ATCAAATAAA 180  
 AAGATAGACC TGCAA 196

(2) INFORMATION FOR SEQ ID NO: 657:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 201  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00727  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 657:  
 GATCTGCCTG CCTCAGCCTC TCAAAGTGTT GAGATTACAG GCGTGAGCAN CCGCTCCCTG 60  
 CCCAACACAT ATACCATCTG AAAATGTTAG AATTCTGAGT TGTGATTTTA TTGACTTGTT 120  
 GCTTGCTTTT CCTNAGGCTT TGTAAGTTGT AATATGTAA AGTGACTAT CCTAATAAAC 180  
 TGAATACTTT GGTATCTTAA A 201

(2) INFORMATION FOR SEQ ID NO: 658:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 197  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00728  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 658:  
 GATCCTCCAT TGGAGTGGCC CAAATCTTTC CATCTAGGGC AAGTCCTGAA AGGCCCAAGG 60  
 CCCCCTCCCC AGTCTGGCCT TGGCCNCCAG CCTGGAGAAG GGCTAACATC AGCTCATTGT 120  
 CAAGGCCACC CCCACCCAG AACAGAACCG TGTCTCTGAT AAAGGCTNTT GAAGTGAATA 180  
 AAGTTTAA ANCTAA 197

(2) INFORMATION FOR SEQ ID NO: 659:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 195  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00729

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 659:

GATCGTNTTT GTTTTGT TTTT TAAAGAAAGG TGAGATTGGC TTGGTTCTTC ATGAGCACAT 60  
 TTNATATAGC TCTTTTCCTG TTTTNCCTTG CTCATTTTCGT TTTGGGGAAG AAATCTGTAC 120  
 TGTATTGGGA TTGTAAAGAA CATCTCTGCA CTCAGACAGT TTACAGAAAT AAATGTTTTT 180  
 TTTGTTTNNC AGAAA 195

## (2) INFORMATION FOR SEQ ID NO: 660:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 196  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00730

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 660:

GATCTCAAAC TCCAGGCTCA GAACTGTGAA GACTGTTTCC AGCCTGGCTG TGAGCCAAGA 60  
 CCTGGTTCCT GGTGGACCCT GAGGACAAAG TGTGATAAAA CCTCTGGCTC AGACTTGCTC 120  
 TACTGAAGGC TTCTTGTTA TAAGATGCAT AAAGTCACTG GGGCTAGCTA AACAATAAAG 180  
 AGTTTATTGT GAGAAA 196

## (2) INFORMATION FOR SEQ ID NO: 661:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 194  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00731

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 661:

GATCTAATGT ACTGTAAC TT TATCAGTGAA AGGTAAATC TCAAATAACA AGTACAAACA 60  
 TTGAACAATT ACCTATAAAG ATTTNTAAAA GTAAATTTT TCCAATAGAT TTCATTCTTG 120  
 TCATTTTGTA AGACGACCCT GCAGTCCACC NGTTTGTAAC TTTT TTAATA AAATAGACAT 180  
 CTGTATTACT GAAA 194

## (2) INFORMATION FOR SEQ ID NO: 662:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 246  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00732

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 662:

GATCAAGAAA ATAAGGACAA CGTGAAGTTT AAAGTTCGAT GCAGCAGATA CCTTTACACC 60  
 CTGGTCATCA CTGACAAAGA GAAGGCAGAG AAAGTGAAGC AGTCCCTGCC CCCC GGGTTT 120  
 GCAGTGAAGG AACTNAATAA ACCAGACACA CACAGAACAG GCGATTATTT ATTTGTTTTT 180



AATTTATTTT GTCATATTTT TGTAACCGG CAGAAATGCA ATAAACCTA TATTTCAACA 240  
GTGAAA 246

(2) INFORMATION FOR SEQ ID NO: 663:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 192
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00733

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 663:

GATCATATTT TATACATGTG TAATAGATAA AAATAAACCA GATTGCAAAT CCTTTTTTAA 60  
AATCCTAAAC CATGTACCAA GTTTTTGGTC CAAATTATGT AGGATAAGTT AAACCTAAAT 120  
TGCATTCTAT TAACCAATAT GAGTGTATTT CTGTAAGCAT AGTTATGTTG AAATAAAGTT 180  
TTAAAAACCA AA 192

(2) INFORMATION FOR SEQ ID NO: 664:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 191
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00734

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 664:

GATCTTCACA CTAATGATGA GTGTGTGGCT ACATACAAAG GAGTTCCTT TGAGGTGAAA 60  
GGGAAGGGAG TATGTAAGGG CTCAAACCAT GAGCAACAAG TGAATCAAA TAAAATGCTT 120  
CCACNACCAA AAGACATTAG AGAAAACCTT AAAAGTAATA AAGNGAATA TATTTNTCAC 180  
TTATACCTAA A 191

(2) INFORMATION FOR SEQ ID NO: 665:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 188
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00735

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 665:

GATCTGAATC TNCCGGGGCC CCAGCCCACT CCACCCTGCC AGCAGCTTCC AGCCAGTCCC 60  
CACAGCCTCA TCAGCTCTCT TCACCGTTTT TTGATACTAT CTTCCCCCAC CCCAGCTAC 120  
CCATAGGGGC TGCAGAGTTA TAAGCCCCAA ACAGGTCATG CTCCAATAAA AATGATTCTA 180  
CCTACAAA 188

(2) INFORMATION FOR SEQ ID NO: 666:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 186

(B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00736  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 666:  
 GATCTNAAAC CCAAGGGTCT GAGGCCAGGG CCGACTGCCG TAAGATGGGT GCTGAGAAGT 60  
 GAGTCAGGGC AGGGCAGCTG GTATCGAGGT GCCCATGGN AGTAAGGGGA CGNCTTCCGG 120  
 GCGGATGCAG GGCTGGGGTC ATCTGTATCT AAAGCCCCTC GGAATAAAGC GCGTTGACCG 180  
 NCGAAA 186

## (2) INFORMATION FOR SEQ ID NO: 667:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 184  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00737  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 667:  
 GATCTGTAAA TAATCATTGC CAGTNTGACT TTTGTTCAAC AAAAGGATTG TACTGTATTA 60  
 AGAACCGATG AAAAAAATTN TCCTGTAACA TTTTTTTAAG AAAACTTTGT TTGTTTAAAG 120  
 AAAAAGTATT GTATAANTNA TAATTTTAAT TTAAATAAAC CTAAAATGCT TTGTGCTAAG 180  
 GAAA 184

## (2) INFORMATION FOR SEQ ID NO: 668:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 180  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00738  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 668:  
 GATCCCAGAA AAGTTCTAAT TTTCATTAGC AATTAATAAA GCTATACATG CAGAAATGAA 60  
 TACAACAGAA CACTGCTCTT TTTGATTTTA TTTGTACTTT TTGGCCTGGG ATATGGGTTT 120  
 TAAATGGACA TTGTCTGTAC CAGCTTCATT AAAATAAACA ATATTTGTAA AAATCATAAA 180

## (2) INFORMATION FOR SEQ ID NO: 669:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 179  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00739  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 669:

GATCTATCCA AGGTTTTGAC ATGTATCGAG AGTTTATTCC TTTTATTGTC TGAATAGTAT 60  
 TAATATTCTA TAGTATGGAT GTAACATAGT GTGTTTAAAC ATTCGCCTGT TGAAGGACAC 120  
 TTGGGTTGTT TCCAGTTTCA GGTTCTTACA AATAAAGCTA CTCTGTGTGT TCATGTAAA 179

## (2) INFORMATION FOR SEQ ID NO: 670:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 179
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00740

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 670:

GATCAAATGC CAGTGTCATT TTGTACTTAA GTTCCAAAGT AGGAACATTN TATACTTTTT 60  
 NCTGTATTGT AATAGGTAGT TTTGTATGAA ATCTTTTCTC CTCTCCCGTT GTACCGCATT 120  
 CTTTCCAGCA TTGTGCTTTT TCCCTGGNCT TATTTGAAAA TTTTACTGTT TTATACAAA 179

## (2) INFORMATION FOR SEQ ID NO: 671:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 177
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00741

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 671:

GATCCAAGAA ACCAGGGCCA TGACCAGGTC CACTGTGGAG CAGCCATCTA TCTACCTGAC 60  
 TCCTGAGCCA GGCTGCCGTG GTGTCATTTT TGTATCCCGT GCTCTGTTTC CTATTGGAGT 120  
 TTCTTCTCCA CATTATNTTT GTTCCTGGGG AATAAAACT ACCATTGGAC CTAGAAA 177

## (2) INFORMATION FOR SEQ ID NO: 672:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 175
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00742

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 672:

GATCTGCAAG TCCCGGAGAG CAACAGCACA GCTCTGCCTG ACGCTCTCAT TAAAATCTAT 60  
 GCAGCCAAGC TCGGCACTTT GTAGCAGCCG GCCTTGCGAA GCCTCCTCAG CTCGGGGGGC 120  
 CGGGGACCCA GTGAGCCGAG AGCCCTCTGG NCTCCACTTA TGCATATGCA CCAA 175

## (2) INFORMATION FOR SEQ ID NO: 673:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 180
- (B) TYPE: nucleic acid

(C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00743  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 673:  
 GATCCGGAGA ATAGGGCNNN AATATGTGCC GCCAGTGTTC CCGTCAGTAC GCGAAGGATA 60  
 TCGGTTTCAT TAAGTTGGAC TAAATGCTCT TCCTTCAGAG GATTATCCGG GGCATCTACT 120  
 CAATGAAAAA CCATGATAAT TCTTTGTATA TAAAATAAAC ATTTGAAAAA ACCCTTCAAA 180

(2) INFORMATION FOR SEQ ID NO: 674:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 176  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00745  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 674:  
 GATCTATTCA GATGGTTCTG ATGAAGTGAA ACGNGCCATG AACAAATCCT TTATCINNNGT 60  
 CGGGTGGTAC AGTTTTGAGT ACCAACTGGT CTGATGTAGG TAAAAGGAAA GTTGAAATCA 120  
 ATCCTCCTGA TGATATGGNN NGGAAAAAGT ACTAAATAAA TTAATTTGCT CTCAAA 176

(2) INFORMATION FOR SEQ ID NO: 675:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 173  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00746  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 675:  
 GATCAAAACC AGTTTGATTT GGGAATCTTC CCCTTTCCAA ATGAAATAGA GATGCAGTAC 60  
 TTAACCTTCC TTGGTGTGTTG TAGATATTGC CTTGTGTATT CCACTTAAAA CCGTAATCTA 120  
 GTTTGTAATA GAGATGGTGA CGCATGTAAA TAAAGCATCA GTGACACTCT AAA 173

(2) INFORMATION FOR SEQ ID NO: 676:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 173  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00747  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 676:  
 GATCCTAGCA TCCCTTTTCA CATGGTTTCT CCATGTATAT AACAGAATCA AGAAACAAAT 60  
 TTNAATTAAA CAATCTGTAA CAGAATCAAG AAACAAATAC ATTTTAATTA AACAATCTAT 120

ATGGAACAAA CATTCCCAA TNCTAAGAAT AANTNTTCNT NTAAGTTTTC AAA

173

(2) INFORMATION FOR SEQ ID NO: 677:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 182
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00748

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 677:

GATCCAAATA ATTTATTAAA TGACTGGTCT CAGAACTGA ACTCATTAAT GTCTCTGGTT 60  
 AACAAACTA CGCATCTCAT AGCCAAAGAG GAGATGATAC ATAATCTACA ATAAGGGTCT 120  
 TAGTGCTTTA GAAAAAGTT AAAATTGGAA GTCATTAAAA AAAGACTGTT ATAATGGTGA 180  
 AA 182

(2) INFORMATION FOR SEQ ID NO: 678:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 173
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00749

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 678:

GATCTTATGA GAAGAGGAAG GAGAGANGTC TCTNCCTATG CTCACACACA AAGGAAAGTC 60  
 CACATGAGGA CACAAGGAGA AGCCAAGAGN GCCCTTACCA GGANTTAAAC CTGCTAATCC 120  
 CTATTTTAAT TAGAACAGTG AGAAANTAAA TATCTGTATT TAAGCCTCAC AAA 173

(2) INFORMATION FOR SEQ ID NO: 679:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 173
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00750

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 679:

GATCCAGAGA AAGCCAAAGC TCTTAGTAAA CACTTGCCAT CGTCAGTNTN ATGTCTCTAA 60  
 AAGTAGATGT TGAGGCTCTT NAAAATNCTC CTGGTGCTAC ATACATTCGG AAGAAGGGTG 120  
 GAAAAGTTAC TGGAGATAGT CAACCAAAGG AACAAGGACA GGNAGATTG AAA 173

(2) INFORMATION FOR SEQ ID NO: 680:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 172
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00751  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 680:  
 GATCCAATCC ATTCAAGCAGT CCATTGAAAG GCTCTTAGTC TAAACCTGTG GCCTCTGCCA 60  
 CGTNGCTCCC TGCCAGCTTC CCCCCTGAGG TTGTGTATCA TATTATCTGT GTTAGCATGT 120  
 AGTATTTTCA GCTACTCTCT ATTGTTATAA AATGTAGTAC TAAATCTGGA AA 172

(2) INFORMATION FOR SEQ ID NO: 681:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 170  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00752  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 681:  
 GATCAAATTT AAACCTTCATT TTGGGGGGTA TTTTGGTACT GTAATGGGGT CATCAAATNA 60  
 TTAATCTGAA AANAGCAACC CAGAATGTAA AAAAGAAAAA ATTGGGGGGA AAAAGACCAG 120  
 GTCTACAGTG ATAGAGCAAA GCATCAAAGA ATCTTTAAGG GAGGTTTAAA 170

(2) INFORMATION FOR SEQ ID NO: 682:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 239  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00753  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 682:  
 GATCGGAACA GCTCCTTACT CTGAGGAAGT TGATTCTTAT TTGATGGTGG TATTGTGACC 60  
 ACTGAATTCA CTCCAGTCAA CAGATTCAGA ATGAGAATGG ACGTTTGGTT TTTTGTGTT 120  
 TTTGTTTTTG TTTTTCCTT TATAAGGTTG TCTGTTTTTT TTTTNNAAA AATNGCANCA 180  
 GTNCATGGCC CCCATCATT ANANGNGAGG ANTNCANCAG AAAATAAAAT ATNCACTCN 239

(2) INFORMATION FOR SEQ ID NO: 683:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 170  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00754  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 683:  
 GATCCAGACA GCCATCAGGG AAAGCTTGTN TTTAACCGAA CTGTCACACT GAAGGAAGAC 60  
 CCAGGAAAGG TGTGAGCTGG AAGCACTGAA CCTACCTCAT CCTCCTGGAG GGTGTGGCTA 120  
 CCCTCGCCAC CCCAAATTCC ATGTCAATAA AGAACAGCTA AATTCTCAA 170

## (2) INFORMATION FOR SEQ ID NO: 684:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 168
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00755

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 684:

```
GATCTTTCCA TTGGAATAA CTGGAAGTGA AGAGGTTTTG TTGCTTGAC AGTGTCAGAT 60
GAGGAACACC ACTATCTTAA TTTTGTGATA CACTGCATTT GCTGGTGCTA TTTTNATAA 120
GTGAAGCAAC AGCTTTCAG CAAAATAATA AAATACTTCT ANGTTAAA 168
```

## (2) INFORMATION FOR SEQ ID NO: 685:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 169
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00757

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 685:

```
GATCCATCGT NATGTCTTAT TTAAGGGGAA CGTGTGGNCT ATTTAGGCTT TATGGCCCTG 60
AAGTAGGAAC CAGATGTCGG ATACAGTTCA CTTTAGCTAC CCCCAGTNT TATGGGCCCCG 120
GAGCGAGGAG AGTAGCACTC TTGTNCGGGA TATTGATTTC ACGGAGAAA 169
```

## (2) INFORMATION FOR SEQ ID NO: 686:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 171
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00758

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 686:

```
GATCTGCTAC TAAACAGAGT TCAAAAACCT TCCAGAGTAA TTAATATGTA AAGCCANGTA 60
ACTAACAAAN GATTTGCTTT AGAGATAATT ATTTGGAATT TTTATAGCTN ACTTCACAAT 120
GTGCCCAGGT CAGCTGTATA AAATAAATAC TGCATTNTNG TTTCTTTCAA A 171
```

## (2) INFORMATION FOR SEQ ID NO: 687:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 167
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00759

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 687:

GATCCTGACA CTAAGGAAAT GCTGAAGCTT TTGGACTTCG GCAGTCTGTC CAACCTTCAG 60  
 GTCACCTCAGC CTACAGTTGG GATGAATTTT AAAACGCCTC GGGGACCTGT TTGAATTTTT 120  
 NCTGTAGTGC TGTATTATTT TCAATAAATC TGGGACAACA GCAGAAA 167

## (2) INFORMATION FOR SEQ ID NO: 688:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 166  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00760

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 688:

GATCAGCGAT GAAGAGGAAG AAGATGATGA TTGAAGTATG AAATATGAAA ACATTTTATA 60  
 TATTTNATTG TACAGTTATA AATATGTAAA CATGAGTTAT TTTGATTGAA ATGAATCGAT 120  
 TTGCTTTTGT GTAATTTTAA TTGTAATAAA ACANTTTAAA AGCAAA 166

## (2) INFORMATION FOR SEQ ID NO: 689:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 175  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00761

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 689:

GATCTATTG GTCTTTCTCA TGTCCCCAC TGGTCTGTAC CCCAGGGAGC GGGTGCTTGT 60  
 ACTGTGTGAA TCCAGTGTTT ACATTCACAC TTAATGACTT CCTTGGCACC AATCATGTAT 120  
 TTCACCGTTT GCACTTNTTG TATTTCAATA AAAATGTTGA TGCAAAACTG CTAAA 175

## (2) INFORMATION FOR SEQ ID NO: 690:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 165  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00762

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 690:

GATCGACTCT ATCATCCAAC GCTCCGAGGA CAGCCCATGT CCCACCCCN GNGACCCGGA 60  
 CCCGGCCAGC AGGACCCACT GAGANGGGCT GCCCGGNCT NCTCAGCTGC CCACACCCAC 120  
 ACTGTCCAGC ATCTGGCACA ATAAACATNC TCTGTTTTGT AGAAA 165

## (2) INFORMATION FOR SEQ ID NO: 691:

## (i) SEQUENCE CHARACTERISTICS:



(A) LENGTH: 164  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00763  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 691:  
 GATCAAGAAA TAAACATAAA CATCTCAGAA TGCTCCTTCA TTACCAGAGT CACTACCTGA 60  
 TTATGTCTTA ATGGGTTACA TAATGACAGA GGGTATCTCA TATATGTNCT TTTCCAAACA 120  
 TAAATAACT TTTTGTTTTG TTTGATTGAA AAAAAATTTA GAAA 164

(2) INFORMATION FOR SEQ ID NO: 692:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 171  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00764  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 692:  
 GATCCAGATT CTCACCTTAAT GGGGTTTATA TGGACTTTCT TCTCATAAAT GGCCTGCCGT 60  
 CTCCCTTCCT TTGAAGAGGA TATGGGGATT CTGCTCTCTT TTCTTATTTA CATGTAAATA 120  
 ATACATTGTT CTAAGTCTTT TNCATTAAAA ATTTAAACT TTTCCATAA A 171

(2) INFORMATION FOR SEQ ID NO: 693:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 164  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00765  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 693:  
 GATCGACTCT ATCATCCAAC GCTCCGAGGA CAACCCNTGT CCCCACCCCGG GGGACCCGGA 60  
 CCCGGCCAGC AGGACCCACT GAGAAGGGCT GCCCGGNTCA CCTCAGGGGG NCACANTTTA 120  
 CACTCTCCAG CATCTGGCAC AATAAACATN CTCTGTTTTG TAAA 164

(2) INFORMATION FOR SEQ ID NO: 694:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 168  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00766  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 694:

GATCTAATGG TCTAAAACT GGAGTTTCCG GACACAAGCT CTCCCTTTNC CTGCAACCAT 60  
 CCATGCAAGA TGTNACTTGC TCCTCTNTGC TTTCTGCCAT GATTGTAAGG CCTCCCCAGC 120  
 TACATGGAAC TNTAACTCCA TTAAACCTCT TTNTTTTGTA AATTGAAA 168

(2) INFORMATION FOR SEQ ID NO: 695:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 160
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00768

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 695:

GATCCGCCCA CCTCAGCCTC CTAAAGTGCT GGGATTACAG CTGTGAGCCA CCCTGCCCCG 60  
 CCACTTTTGT ATGATTTCTA ATGTATTTGT AATTACCTA ACAAATTGCC TAATCTGCTA 120  
 TGTTAATGTA TTTATGAATT AAAATAAATA CGACTGCAAA 160

(2) INFORMATION FOR SEQ ID NO: 696:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 161
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00769

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 696:

GATCCGTAGC GGCATGTTCT GGCTGCGCTT CTAGGCGGGA AGCCTATGTA AGCAAGAGGG 60  
 CAGGGCCGGG GTTTGTGGTC CCCCCCCCAC CACAAACACA GCACTTCGGC TCCTCTAACC 120  
 TGTGCCACAG GTGACCACCA ATAAATCCT CTGCTGAGAA A 161

(2) INFORMATION FOR SEQ ID NO: 697:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 159
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00770

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 697:

GATCTCCCTG CCCCCACCC AGTTCCCCAA CCCACTCCCT TCCAACAACA ACCAGCTCCA 60  
 ACTGACTCTG GTCTTGGGAG GTGAGGCTTC CCAACCACGG AAGACTACTT TAAATGAAAA 120  
 AANGAAATTG AATAATAAAA TCAGGAGTCA AAATTCAAA 159

(2) INFORMATION FOR SEQ ID NO: 698:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 159
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single

(D) TOPOLOGY: linear  
(vii) IMMEDIATE SOURCE:  
(B) CLONE: HUMGS00771  
(ix) FEATURE:  
(D) OTHER INFORMATION: "N"=unidentified base  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 698:  
GATCTTTTNN TTTTTTTTAA GTCTCACAAG ACATGGGGCA TCTCCACAAA TTAAAGTTCC 60  
TGTCCATTTG GAAATTTGTT TCTATGTGTA CAGTTTGTCA GAGAAAAACA AAGTTTTTGT 120  
ATGANTACAG AATGTGATT ACGCAAGATT TGACAGAAA 159

(2) INFORMATION FOR SEQ ID NO: 699:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 161  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear  
(vii) IMMEDIATE SOURCE:  
(B) CLONE: HUMGS00772  
(ix) FEATURE:  
(D) OTHER INFORMATION: "N"=unidentified base  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 699:  
GATCTACCTA TCTTCAGGAT GGAACCTTGG GGAAAAATAA AATTGAGGGG AAGTAAAAAG 60  
TATGTAACAC TTCCAGTTGT GAGCCAAGAT TGTAACCAGA GAGCAGCCAG GAGCTTCCTG 120  
TCAGTAACCA TTTTTTCAAT AAATACTCTT TCATGTACAA A 161

(2) INFORMATION FOR SEQ ID NO: 700:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 157  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear  
(vii) IMMEDIATE SOURCE:  
(B) CLONE: HUMGS00773  
(ix) FEATURE:  
(D) OTHER INFORMATION: "N"=unidentified base  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 700:  
GATCCTCTCA CCTCAGATTT CCAAAGTGTT GGATTATAGG TGTAAGCCAC TGAGCCCAGT 60  
TTGAATGCTT TTTTATATAT TTTTGGCCA TTTGTATGTC ATCTTTGGAG AAATGTCTAT 120  
NCAAATCCNT TGCTCATTAA AATNATTTNC TGATAAA 157

(2) INFORMATION FOR SEQ ID NO: 701:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 160  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear  
(vii) IMMEDIATE SOURCE:  
(B) CLONE: HUMGS00774  
(ix) FEATURE:  
(D) OTHER INFORMATION: "N"=unidentified base  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 701:  
GATCTGGCCG TNAGCCGCGA NCCGCTGNGA ACTCCACTCG GGGAACCTCT TTCCAAGCTG 60  
ACCTCAGTTT TCTCACAAGA ACCCAGTTAG CTGATGTTTT ATTGTAATTG TCTTAATTTG 120  
CTAAGAACAA GTAATAAGTA AATTTTTTAA AAGCCTTAAA 160

## (2) INFORMATION FOR SEQ ID NO: 702:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 161
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00775

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 702:

```
GATCAAATTG TGCAGTACTT TGTGCATTCT GGATTTTAAA AGTTTTTNAT TATGCATTAT 60
ATCAAATCTA CCACTGTATG AGTGGAAATT AAGACTTTAT GTAGTTTTNA TATGTTGTAA 120
TATTNCTCCA AATAANTCTC TCCTATAANC CACCAGGGAA A 161
```

## (2) INFORMATION FOR SEQ ID NO: 703:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 154
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00777

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 703:

```
GATCAGAGCT TATACTTAAT TAAGGTTTTA TACACACCAG TTCCCCAGTA AATNCAAATT 60
TAACAAGAAA ATCAGACATG TCATATGTNC AAAATGCTCA TGGCAAACAA TCATTTTGCA 120
TTCCTGCAAA TAAAATTGTT TTATACTGTA GAAA 154
```

## (2) INFORMATION FOR SEQ ID NO: 704:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 153
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00778

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 704:

```
GATCTGTTTG TTCCCTGAGC TTTTAAATA CCCTGTGAAA ATTTTNTTTC CTCCCTTGGT 60
CATCATGCAT CTAATTGTGG GGAAATGTTT GTCAAACCAA CCTGCAAAGC AGCATGGTGT 120
AGTTGAGAAG AATAACAGA GAAGACTGGG AAA 153
```

## (2) INFORMATION FOR SEQ ID NO: 705:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 152
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00779

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 705:

GATCTTTGGA CAGAAGCAGC TCTTTCCCGA ACACTTGTGG CGTCTGGNAC GGCCCCACCC 60  
 NTCCCCCAC ACTCCCTCCC ACGGGGCTCC GGGAGACAGG CCGGCCCTGC ACCTNACCCC 120  
 ACCGTGACCT CAATAAACGT TGAAACTNCA AA 152

## (2) INFORMATION FOR SEQ ID NO: 706:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 152  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00780

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 706:

GATCTATCCT TTA CTTGAAA GCTTTTGAAA AGTGGAAGG TCATTTTGTT GCATTTCCCC 60  
 ATTTCTTGTT TTAAAAGAC CAACAAATCT CAAGCCCTAT AAATGGCTTG TATTGAACTT 120  
 TTACATTGA ATTAAAGATG TTAACATGA AA 152

## (2) INFORMATION FOR SEQ ID NO: 707:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 151  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00781

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 707:

GATCTAGTAT GCTCCTGGTC TAATGCATT ACATTGTTA GGTAAGTGGT TCCTAATAAA 60  
 AAGAATTATA AAATACCCTC AAATTAACAA TTCAATNGCA TATAATAGCC TAACTCAGTA 120  
 AGANTATTAA AACTTACTAT TATNCTTCAA A 151

## (2) INFORMATION FOR SEQ ID NO: 708:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 152  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00782

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 708:

GATCTANTCT GTGCTACCTG ATTAACCTCAC AGCAGGCTTA CTGANTGGCT TCATTTTCTG 60  
 TTTAGTTGAT TTCTCCACCA AATNCATGTC ATGTATTCTC AATAGGCTGT ATTCCCAGCA 120  
 GNCAATAAAT GGAACACCCG TANAANCNCA AA 152

## (2) INFORMATION FOR SEQ ID NO: 709:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 147  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00783  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 709:  
 GATCCCCAGG GTTTCCTTGT CTTATTTATG GAGAAAAACC GGTCACCTTG TCCAGCGCAC 60  
 TGTGAGGCC CCCTCAGGC CAGCCCTGGC CCCCCCTTGG TACTTGGAAC CGAAGTTACA 120  
 GATTATATTA AAATAATAAT GTACAAA 147

(2) INFORMATION FOR SEQ ID NO: 710:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 146  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00784  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 710:  
 GATCTTATAA AAGGAAATTC TAGCAGTTTT AGAAATAGGT GGGAAAAACT CAAATATTCC 60  
 TCCTATCTGC ACCAAAAAGT TTATTTGTGG TATATAAAAT GAATATTGTT TTATAATAAC 120  
 TTGTTAATAA AGTACTTTCT AATAAA 146

(2) INFORMATION FOR SEQ ID NO: 711:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 145  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00785  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 711:  
 GATCAATGAA GTGAGAAATT GTTGAGAAGG ATACAGTTTG TTTTATAGATG TCCTTTGTCC 60  
 AATGTGAACA TTTATTCATA TTGTTTTGAT TACCCTCGTG TTACTACAAG ATGGCAATAA 120  
 ATACTATGGG ATTGTTTGTA TTAAA 145

(2) INFORMATION FOR SEQ ID NO: 712:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 145  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00786  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 712:

GATCTCCCTT CAGCAACTTA TTTTGCTTTA ATTGCTTTAA ATCTTAAGCA ATATTTTAA 60  
 TTCAGTAAAC AAATTCTTTC ACAAGGTACA AAATCTTGCA TAAGCTGAAC TAAAATAAAA 120  
 NTGAAAAGGA GAGATTAANG GTAAA 145

(2) INFORMATION FOR SEQ ID NO: 713:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 145
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00787

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 713:

GATCTAGAAG CAGAGGAATC CCAGCGCCTT TTAAAGTTG TTATGTGGTT TTCTTTTAAA 60  
 AAGCTCCTGT TTTTGGAAAG TAGAATTTAT GGGTACAACG TATGTTTCATT ATTTGTACAT 120  
 AAAATAAAAC CATTTAATAA GTAAA 145

(2) INFORMATION FOR SEQ ID NO: 714:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 154
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00788

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 714:

GATCTATGCC TAACAGAGCC CCAGTACAAC TATTTTNCAG AATGGCTGTT ACCCTAGAAT 60  
 TACTATAGCA CATATTGAGA TATAGTTGTA CTCCTAGTA GATAGGAACT GACCCCAACA 120  
 ATAAACTTTG ATAATAAAGA AAAAAAANCG NAAA 154

(2) INFORMATION FOR SEQ ID NO: 715:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 144
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00789

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 715:

GATCAACCTT AAAGGAAACT GCTATCCGAA CTTGGCTATC TCACAGCAGA GCCAGTTTGA 60  
 CGAATGGGTA AAACCTAAGG ACATGCTGGG TCCAAAGTGA TTTACATAAA TNTATAATGA 120  
 AAATAAACAT GTATAANATT TAAA 144

(2) INFORMATION FOR SEQ ID NO: 716:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 149
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single

(D) TOPOLOGY: linear  
(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00790

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 716:

```
GATCCGTGAT GCCACTTACC TGTGTGTTTG GTAACAACAA ACCAACATCA TGGAGGTCCC 60
TGGATTGAAA AAGGAGCCTC TCCCACTCCT CCTACCACCA AAGTGGTTAG GACNCTATAT 120
AANTAAAAAC AAGGCTTTTG GAAAATAAA 149
```

(2) INFORMATION FOR SEQ ID NO: 717:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 147

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00791

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 717:

```
GATCTGGCTG AACCAAGTTCC ACAAGTTTAC TGTATACATA GCCTGAGTTT AAAAGGCTGT 60
GCCCATTCA AGAATGTCAT TGTTAGACTT TGAAATTTCT AACTGCCTAC CTGCATAAAG 120
AAAATAAAAT CGTTTTAAAT CAAGAAA 147
```

(2) INFORMATION FOR SEQ ID NO: 718:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 115

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00792

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 718:

```
GATCTGGGGC AGCCACCTTG CTACCATGAA GGAAAGGCCA AGACAATCAT CCACAGCTAT 60
TCCCTCCAGC ATCTGGTTCT GTACAAAAAT TAAATGCTTA TTTNTTTAAG TCAAA 115
```

(2) INFORMATION FOR SEQ ID NO: 719:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 142

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00793

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 719:

```
GATCGCCACT GTAAAGGTCC TAGAGTTGCC TGTGTGCTC TGGAGATGGA ATTAAACCAA 60
ATAAGAGCT TCCACTGGAG GCTTGATTG ACCTTGTAAC TATATGTAA TCTCNTGTTA 120
AAATAAAATA TAGCTTGTTGA AA 142
```



## (2) INFORMATION FOR SEQ ID NO: 720:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 142
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00794

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 720:

```
GATCTGTGCC TACNTTTTAC CACCCTCTTG ATTGGAGCTT TTGTNATGCA GCTACCATNN 60
TTCAAAAAAA TTAAAAATTA AAAAAAATAA ATCTGCCACT TATCCAAGTC CACTAGAGGC 120
CACTGTCTTC AAAGNTTNTN TN 142
```

## (2) INFORMATION FOR SEQ ID NO: 721:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 147
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00795

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 721:

```
GATCCAGGTG ACTCTGAACA TCATTAGAAG CATGCCAGAA CAGACTGGTG AAAAGTAAAC 60
CTTTTCACCT ACAAAATTTT ACCTGCAAAC CTAAACCTG CAAAATTTTC CTTTAATAAA 120
ATTTGCTTGT TTTAANAACA NNNGAAA 147
```

## (2) INFORMATION FOR SEQ ID NO: 722:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 140
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00796

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 722:

```
GATCCAGAGC CTCCCGGCC TTCTCCGGTG TCCTGTACCA ACTCTTCTAT TTAAGAGAAC 60
CTCAGATGAT GTACCTGAGC CTCAGGGTTT TGTTTCAGAG GGATATAAAT NATTTAAAAA 120
TTAAATGAAA ACGTTGCAAA 140
```

## (2) INFORMATION FOR SEQ ID NO: 723:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 150
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00797

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 723:

GATCGGCCAC TACCTGGGCG AGTTCTCCAT CACCTACAAG CCCGTAAAGC ATGGCCGGCC 60  
CGGCATCGGG GCCACCCACT CCTCCCGCTT CATCCCTCTC AAGTAATGGC TCAGCTAATA 120  
AAGGCGCACA TGACTCCAAA AAAAAATAAA 150

(2) INFORMATION FOR SEQ ID NO: 724:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 140  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00798

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 724:

GATCAGGGTA AGGCAGTCAG GCGGGTGTTT ACCACTGCCT TTCCTTCCTC TGAGCGTGAG 60  
AACACTGAAC CCAGCCACTG CCCCTGGGTC CCTGTCCTGG AAATNGTCTA ATAAATCCTT 120  
TNCCCTTCTT GAGCTACAAA 140

(2) INFORMATION FOR SEQ ID NO: 725:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 141  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00799

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 725:

GATCCGAATC GAGGCCAACG AGGCCCCGGA TGAAGGCCCN GGAGTAGGCG AGCCAGACGA 60  
CAAGGTTGAC CTCAGCTTCG GAGCCACCTC TGGATGAACT GCCCCAGCC CACGNCCNAT 120  
TAAAGACCCG GAAGCCTGAA A 141

(2) INFORMATION FOR SEQ ID NO: 726:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 136  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00800

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 726:

GATCAGCTTT ACCTATGGTG CTTTGCCTTT AACTAGAGTG TGTGATGGTA GATTATTTCA 60  
NATATGTATG TAAACTNTT TCCTGAACAA TAAGATGTAT GACCCGGAGC AGAAATAAAT 120  
NCTTTTCCTA ATTAAA 136

(2) INFORMATION FOR SEQ ID NO: 727:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 135

(B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00801  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 727:  
 GATCATGTCA TTCAATTCCA GTCACCTCTT CTGCAATCAT GACCTCTTGA TGTCTCCATG 60  
 GTGACCTCCT TGGGGGTCAC TGACCCTGCT TGGTGGGGTC CCCCTTGTA CAATAAAATC 120  
 TATTTAAACT TTAAA 135

(2) INFORMATION FOR SEQ ID NO: 728:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 135  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00802  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 728:  
 GATCTTAAAC ATTGTTTTGT AGTGTATATT ACTTGTCAT TCCTTTAAGG GGAGCAGCCT 60  
 GCACTCTTTT GTAGATTACT TTTGGGGGAT ATATTNNAG AATNATGAAA CGGAATAAAA 120  
 TTGTAAAAA CTAAA 135

(2) INFORMATION FOR SEQ ID NO: 729:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 134  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00803  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 729:  
 GATCATGTTA CCATATCAAG CTGAAAATGT CACCACTATC TGGAGATTTC GACGTGTTTT 60  
 CCTCTCTGAA TCTGTTATGA ACACGTTGGT TGGCTGGNTT CAGTAGGGGG NTATTNNAGG 120  
 CCTTCTTTT TAAA 134

(2) INFORMATION FOR SEQ ID NO: 730:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 134  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00804  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 730:  
 GATCTANGTT GCCTACCTTG AATTTTTTTT TAAATATATT TGATGACATA ATTTTTGTGT 60

AGTTTATTTA TCTTGACAT ATGTATTTTG AAATCTTTTA AACCTGAAAA ATAAATAGTC 120  
 ATTTAATGTT GAAA 134

(2) INFORMATION FOR SEQ ID NO: 731:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 134
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00805

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 731:

GATCTCACTA AAGGATTTCT ATTTGCTGTC AGTTAAAAAT AAAGCCCTAA ATACATTTTT 60  
 ATTCTTTCTA CTGAGGGCAT TGTCTGTTTT CTTTGTAAT GCGTACAAT AAACAAATTA 120  
 TTAATAACC TAAA 134

(2) INFORMATION FOR SEQ ID NO: 732:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 137
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00806

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 732:

GATCTTGGCA CTCTCCATGT TCTCTACAAG AAGCTGTGGT GATTGGCCCT GTGGTCTATC 60  
 AGGCGAAAAAC CACAGATTCT CTTTCTAGTT AGTATAGCGG ACTTAATAAA AGAGGAAAAA 120  
 ACTCTTGCTT CAGTAAA 137

(2) INFORMATION FOR SEQ ID NO: 733:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 134
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00807

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 733:

GATCCTCGAA CGGAAAGCCA AATCTCGCCA AGTAAGGAAA GGAAAAGGGC AAATACAAGG 60  
 AAGAAACCAT TGAGAAGATG CAGGAATAAA GTAATCTTAT ATACAAGCTT TGATTAAAAC 120  
 TTGAAACAAA GAAA 134

(2) INFORMATION FOR SEQ ID NO: 734:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 132
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00808

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 734:  
 GATCAGTGGC TTTGAATGAA ATACAGATGC ATTATCCAGA ACTGAAGTTG CCCTACTTTT 60  
 AACTTTGAAC TTGGCTAGTT CAAAGATAGA CTCTTCTTTT GTAAAGTAAA TAAATTCTTC 120  
 AAAATGCTTA AA 132

(2) INFORMATION FOR SEQ ID NO: 735:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 132  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00809

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 735:  
 GATCNNAACC TTTTCAATAA AAGGCAAAAC AAACCAATNT CCNAACATAG CATTACAGCC 60  
 TTTAAACCA TTCACTNCTC ATAGTGATTC ACAGAGGACA AGAGATTAAA GTGCTGGATT 120  
 TTAAATGTCA AA 132

(2) INFORMATION FOR SEQ ID NO: 736:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 131  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00810

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 736:  
 GATCANATGC AACCNACAAA CCTCGGCTGA GTCTTGAGAC TGAAAGATTA AGCCATAATG 60  
 TAAACTGCCT CAAATTGGAC TTTGGGCATA AAAGAACTTT TTTATGCTTA CCATCTNNTT 120  
 TTTTCTTAA N 131

(2) INFORMATION FOR SEQ ID NO: 737:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 383  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00811

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 737:  
 GATCATACAC CTGCTCACAG GCGAGAACCC TCTGCAGGTC CTGGTGAACG CCATCATCAA 60  
 CAGTGGTCCC CGGGAGGACT CCACACGCAT TGGGCGCGCC GGGACTGTGA GACGACAGGC 120  
 TGTGGATGTG TCCCCCTGC GCCGTGTGAA CCAGGNCANN TGGCTGCTGT GCACAGGCGC 180  
 TCGTNAGGCT GCCTTCCGGA ACATTAAGAC CATTGCTGAG TGCCTGGCAG ATGAGCTCAT 240

CAATGCTGCC AAGGGCTCCT CGAACTCCTA TGCCATTAAG AAGAAGGACG AGCTGGAGCG 300  
 TGTGGCCAAG TCCAACCGCT GATTTTCCCA GCTGNTGCCC AATAAACCTN GTCTGCCCCCT 360  
 TTTGGGGGAA GCCCCGAAGC AAA 383

(2) INFORMATION FOR SEQ ID NO: 738:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 128
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00813

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 738:

GATCCAGCTG CCAGAGGATG AGTGACCAGT TGCTAAGTGG GGCTCAAGAA GCACCGCCTT 60  
 CCCCACCCCC TGCCTGCCAT TCTAACCTCT TCTCAGAGCA CCTAATTAAA GGGGCTGAAA 120  
 GTCTGAAA 128

(2) INFORMATION FOR SEQ ID NO: 739:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 128
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00814

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 739:

GATCTGGATT ACNATGTAAA TTCACAGCAG TAAGATAATA TAAATTTTGT TGAATGTATT 60  
 AACATCATAT GGTCTGAAAA TGTGGGTTTT NATTTGGCAC ATTTAAATAA AATGTTTCTA 120  
 ACTAGAAA 128

(2) INFORMATION FOR SEQ ID NO: 740:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 128
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00815

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 740:

GATCAAGAAT GAAAAAGACA TCATATGAAN NGGGAGAAAC TATTTGCACA CCATCTATCT 60  
 CATGGTTTGG TTAATATTCA AACTATATNA GCAGAATGTG TAAGGATATC CTACAACTCA 120  
 ATAGCAAA 128

(2) INFORMATION FOR SEQ ID NO: 741:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 138
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single

(D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00816  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 741:  
 GATCCAAGGG GAAACTGCAG GTCAAGGGCT GATAACGGCC ATGCAGGATG CTTGATGCTG 60  
 CGTCCCCCGC TGCTTGCCGC CCCCCACCCC GCCATTTTGT ATAATAAAGC TCCCTGTGTA 120  
 TTCTCAAAAA AAANCAAA 138

(2) INFORMATION FOR SEQ ID NO: 742:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 127  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00817  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 742:  
 GATCCCTGAG ACTGAGGGGT TTACGGGCTG TGAATGGACC TTCAGCCCTN CCCACCCTCC 60  
 CTCCCCACTG CTGCTGAGTC TGTCTGATGT TTTGGTTGTG TGAATAAATA TAATTCCCCT 120  
 CTGGAAA 127

(2) INFORMATION FOR SEQ ID NO: 743:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 124  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00818  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 743:  
 GATCGGGTAG CTCAAAAGAA GGCAAGCTTC CTCAGAGCTC AGGAGCGGGC TGCTGAGAGC 60  
 TAAACCCAGC AATTTTCTAT GATTTTTTCA GATATAGATA ATAACTTAT GAACAGCAAC 120  
 TAAA 124

(2) INFORMATION FOR SEQ ID NO: 744:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 124  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00819  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 744:  
 GATCAGAAAT TCTCTTGCTT GAGAGATTTT TTTTGTCTT CTGTTGACTA CATAGTTTCA 60  
 AATCTCTCTN TATTTTCATGA TGATATATAA ATNGCTTTTA ATTATATNAA ATNTTAATTN 120  
 NCCN 124

## (2) INFORMATION FOR SEQ ID NO: 745:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 125
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00820

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 745:

```
GATCTCATT CCCTGTTTCC GAATTCTGCC GTGTGTATCC CCAACCCTTG ACCCAATGAC 60
ACCAAACACA GTGTTTTTNA GCTCGGTATT ATATATNTTT TTCTCATTA AGGTTTAAAA 120
CCAAA 125
```

## (2) INFORMATION FOR SEQ ID NO: 746:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 123
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00821

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 746:

```
GATCCGTGGC TTAAGACAGG AGATTATCTC TNTACTCCAG TGGCATCTCC TTAGCCAAGA 60
TGTGAAATTA AAATCATAGT TCGCCTCATT TAAAAATNCT AATAAAGCAC TCAAACCTTG 120
AAA 123
```

## (2) INFORMATION FOR SEQ ID NO: 747:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 122
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00822

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 747:

```
GATCCAAATC TGGTTCAAAC ATTCAAAAC TCAAAGATAA TTCATCTTTC AGCTAATGCT 60
TGTGGTTCTG TTGTTCCCTT GAAAAAAAT AAAAAACAGTT GCCTTCNGGG AAAANTTNNA 120
AA 122
```

## (2) INFORMATION FOR SEQ ID NO: 748:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 122
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00823



## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 748:

GATCTTGTGT TTTAGGNTGG GCATTTTCAC TCTTCTGCCT TAAATCCCTA ACCCCATGGA 60  
 GCTGACATTC TAGTGCGGCT GAGGGGAGGG GAAACATTGT AAAATAAATC ATAAAAATTA 120  
 AA 122

## (2) INFORMATION FOR SEQ ID NO: 749:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 122  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00824

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 749:

GATCTCTGGG CTGGGGACTG AATTCCTGAT GTCTGAGTCC TCAAGGTGAC TGGGGACTTG 60  
 GAACCCCTAG GACCTGAACA ANCAAGACTT TAAATAAATT TTAAAATGCA AAAACTCGGA 120  
 AA 122

## (2) INFORMATION FOR SEQ ID NO: 750:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 122  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00825

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 750:

GATCNTAGAA GGGCTTCCCA ACCNNATTTG CAACATCCAA ATTGTCTTCA ATTNAAGGAA 60  
 GGCCTTATCA GTTCATAGAT GANCTTCATT GTAAAAATAA ATGTACTTTG CACCACTTCA 120  
 AA 122

## (2) INFORMATION FOR SEQ ID NO: 751:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 273  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00826

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 751:

GATCCACTTC TGTNATTANG TAAATGGATG TNTCGTGATG CGTCTACAGT TATTTATTGT 60  
 TACATCCTTT TCCAGACACT GTAGATGCTA TAATAAAAAT AGCTGTTTGG TAACCATAGT 120  
 TTCCTTGTN CAAAGCTGTG TAATCGTGGG GGTACTATCT CAACTGCTTT CGTATTCATT 180  
 GTATTAAAAG AATCTGTTTA AACAACCTTT ATCTTCTCTN CGGGTTTAAG AAACGTTTAT 240  
 TGTAACAGTA ATTAAATGCT GCCTTAATTG AAA 273

## (2) INFORMATION FOR SEQ ID NO: 752:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 144
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00827

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 752:

GATCAAAAAG AAACCTTTGTT TTTCCGCAAT TGAAGGTTGT ATGTAAATCT GCTTTGTGGT 60  
 GACCTGATGT AAACAGTGTC TTCTTAAAT CAAATGTAAA TCAATTACAG ATTAAAAAAA 120  
 AAAGCCTGTA TTAAAGAAC GAAA 144

## (2) INFORMATION FOR SEQ ID NO: 753:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 132
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00828

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 753:

GATCAGAGGA AAAATCCAGT GTGACAGAGT GCAAGTNAGA AGACCTGGCT TTNATCCCA 60  
 GCTTTGAAAC TTGGAACCTT TTGATTGACA AATTAATAAA CCTCTCTATG CCTCAGGCTC 120  
 CTCATCTGTA AA 132

## (2) INFORMATION FOR SEQ ID NO: 754:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 117
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00829

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 754:

GATCTAGGCT TGAGCTTGGT TGGGATTGCT NTTTTCTTCT TCTTCTTTAT AAACGATTCT 60  
 NTGTAACNTT TTGTATTGAC AGTTTCAAAC TTACAGTAAA ATTGCAACAC GAGTAAA 117

## (2) INFORMATION FOR SEQ ID NO: 755:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 117
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00830

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 755:  
 GATCAGTACA TAGCATTTGG CTCNTGAACN NAATTNTAAA CTTTCAGGTA TTTTGTACA 60  
 AATAAGGGAC TGATGTTCTG TTTCTTGTA TTAGAAATAA ACATTAATAC AGTGAAA 117

(2) INFORMATION FOR SEQ ID NO: 756:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 119  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00831

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 756:  
 GATCTATCAT TACTGCAAAA ACCTGCTCTG TTGTGCTGGC TGGNAGGCCC TGTGGCTGCT 60  
 GGCTGAGGGT TCTGCTGTCC TGTGGCACCC CATTAAAGTG CAGTCCCTC CGGGCCAAA 119

(2) INFORMATION FOR SEQ ID NO: 757:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 167  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00832

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 757:  
 GATCTGAAAT TAAATACTCA ACAGACTCCT CCTTTTTTAG CTGTATTTTT CAGGTACTGT 60  
 GTGGTGACCG CCCCACTGGT GTCTATTACA GGCCACTTTG GTAGTTGTGT ATCTGNTCAT 120  
 GTATGTGATT TGACAAACCA GTTTTTTAAA ATAAATGGCT TTTTAAA 167

(2) INFORMATION FOR SEQ ID NO: 758:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 379  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00833

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 758:  
 GATCCAAC TA GAAATGAATG GAAGATGATG GGAAATATGA CTTACCAAG GAGCAATGCT 60  
 GGGATTGCAA CTGTAGGGAA CACCATTAT GCAGTGGGAG GATTGATGG CAATGAATTT 120  
 CTGAATACGG TGGAAGTCTA TAACCTTGAG TCAAATGAAT GGAGCCCCTA TACAAAGATT 180  
 TTCCAGTTTT ANCAAATTTA AGACCCTCTC AAAC TANCAG GCTTAGTGAT GTAATTATGG 240  
 TTAGCAGAGG TACACTTGTG AATAAAGNGG GTGGGTGGGT ATAGATGTTG CTANCAGCAC 300  
 CACAANGCTT TTCCATATTN GCNTCCTNTT AACCATGCNT GTCCATAAAC CCNGGGANGN 360  
 NNANTTGNGG GGTNAANN 379

(2) INFORMATION FOR SEQ ID NO: 759:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 121  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00834  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 759:  
 GATCTACTAC TNGGCCTTCA GTGCGAAGAG CCACATCCAG GCCTGAGGGC GGCACCCAG 60  
 CCCTGCCCTT GCTTCCTTCA ATAAACATCA CAGGACCTGG GACTGCACAG GNCCTGGGAA 120  
 A 121

(2) INFORMATION FOR SEQ ID NO: 760:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 303  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00835  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 760:  
 GATCGAAGCA ATTGANGTAT CATGGATTGG ATTGTTACTG ATTTTCAGTAA AGTATGTTTT 60  
 GCCAATTAGA TACATATATA CAAGATAAAG GAATAGGATG GTAATATATT TGTNTGAAAT 120  
 TAAATTACTG TTTTNATTAA AAAATACTGC TTCATTGGGC TGATTTTGTA AAATGTAATG 180  
 AGTAAAATGA ATTACTGTAT TTNCCCTTTT ATGTCCACAG AATGAGAGTC ATATGTNGTN 240  
 ATATNCTAAA TNTNCATTAA ATATTCATGT CACCTTGAGT TGTCATGATA AGTATGTTTT 300  
 AAA 303

(2) INFORMATION FOR SEQ ID NO: 761:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 373  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00836  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 761:  
 GATCTACTAT GTNATGTCAG GGCCTGCGTG GCAACTCATG CAGCAATTCC AGAACCCCTGA 60  
 CTTCCACNC GAAGTAGAGG AACAGGATGC CAGCACCTG CCTGTGTCTT GTGCCTGGAA 120  
 GAGTGGGATG AAACGCCACA GAGCAGCCTG TGCTTCGGCT AGTATTAATG TGTAGATAGC 180  
 ACTCTGGTAG CTGTAACTG CAAGTTTAGC TTGAATTAAG GGATTTGGGG GGACCATGTA 240  
 ACTTAATTAC TGCTAGNNN GGAATGTCTT TGTAAGAGTA GGGTCGCCAT GATGCAGCCA 300  
 TATGGAAGNC TAGGGTATGG GTCACACTTT ATCTGTGTTC CTATGGAAAC TNATTTNGNA 360  
 TATTTNGNTT TGN 373

(2) INFORMATION FOR SEQ ID NO: 762:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 406  
 (B) TYPE: nucleic acid

(C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00837  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 762:

```

GATCTAGGGA GATGTGGAAG AACTGTGAC TACTATAGAA ATTGATGAAG AAACATATGA 60
AGAGATATAT AAATCAACGN AACGGAATAT TCCAATGCTC TTTGTCCGGG GAGATGGCGT 120
TGTCTGTTT GCCCTCCAC TGAGAGTTGG CTGAAACAAA GAATTGTCC TGTATGGAAA 180
NCGNNNNNNN GGTGTACAGT GGCCTCTCTA AAAGTACAAA ACATTCATAA GAGAAACCCG 240
CATACATTTT GATATTAAGA AATAATTCCG GGGATTCTTC CACTCCTGAA ATGAGTTGAT 300
TTGCAGATAA CTCACAACCT CTTAAGCTAA ATGGTATTTT CATTTTCTC AAGCTCTCCN 360
ATAANTATGG CCACCNNGG NNANNGNGTG GGGAAAAAAA NAATTN 406

```

(2) INFORMATION FOR SEQ ID NO: 763:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 120  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00839  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 763:

```

GATCCCCACG CCACAGCCCT TTTGTCTCTG CAACTGCCT TCTTCGGAAA GAAGAAGGTG 60
GGAGGNTGTN AATTGTTAGT TTCTGAGTTT TACCAAATAA AGTAGAATAT AAGACGNAAA 120

```

(2) INFORMATION FOR SEQ ID NO: 764:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 115  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00840  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 764:

```

GATCTTGATG GTGTTTCTTT CCCAAAAAAT TGAAGTAGAT ATTAAAATTT GGTGCTTATA 60
AGAGAGAGTT AAAAAAAAAAAT AGGATTGCTT CAATTAAAAT TACAAAAGAG NCAAA 115

```

(2) INFORMATION FOR SEQ ID NO: 765:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 113  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00841  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 765:

GATCCAGTGA CAGCAGGTGT CATGGGTCAA GCATAAATCA TATATAGCAT TTTCAGGCAT 60  
 GTTCCTGGTA GTTCTTTTGA GTCTGACATT CTAATAAAAT AATTTGTAGG AAA 113

(2) INFORMATION FOR SEQ ID NO: 766:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 112
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00842

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 766:

GATCTTTGTG AGGATTAGGA ATTAGGTAA AAGAAATTAA GAACCATCTT CAAGCAAAAN 60  
 TTAAACTTTA TTTCTNCTTA ANCAATAAAT ACACCTGANT TAGTTTTCCA AA 112

(2) INFORMATION FOR SEQ ID NO: 767:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 112
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00843

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 767:

GATCAAAGAC CCAAAGGAAT GCAACANTTT ATCTNTTATC TACCTATNAC CTGCGAGCTG 60  
 CCCACCACCC CCANGTTGTN GCGCCTTTCC AGACAGAACC AGTGATACATC TN 112

(2) INFORMATION FOR SEQ ID NO: 768:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 130
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00844

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 768:

GATCCAAAAC TTAAATACAT CTATGAATTT CCTGGGGCTA TTGTGAGTAC TGTGTATGTA 60  
 TTTAGCAAAT ATTTAAGACC TAGTAAGTGC TCAATAAATT GTAGCTGTTA TTGCTGTTGT 120  
 NGTTTGTAAT 130

(2) INFORMATION FOR SEQ ID NO: 769:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 111
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00845

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 769:  
 GATCGTGCCA CTGCTCTCCA GCCTGCATGA CGGGAGTNAG ACACCATCTC AAAAAATACA 60  
 TATAATAATA TAAATAAAAA TATCTTTTNN GAAAATAATT TAATATNNCN N 111

(2) INFORMATION FOR SEQ ID NO: 770:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 110  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00846

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 770:  
 GATCNAGTAN TGNAGGGGCT GTTAGGAGCT TCCTGCAAAT CCCTGAGAGG GCAGAAGATA 60  
 GCTTCTGTTA ATTCATTATT CTTCCAATAA ATGTTGATTG AGTACCTAAA 110

(2) INFORMATION FOR SEQ ID NO: 771:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 109  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00847

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 771:  
 GATCACCGNC CAGTAATGGG CTCAGAGCAG GTCTTCATCA TGCCTTGTC TTTTAACT 60  
 GAGAAAGGAG ATTTTTTGAA AAGAGTACAA TTAAAGGAC ATTGTCAA 109

(2) INFORMATION FOR SEQ ID NO: 772:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 109  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00848

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 772:  
 GATCTTCTTC AATATGTGAA TTTGGGCTCA CAGAATCAAA GCCTATGCTT GGTTTAATGC 60  
 TTGCAATCTG AGCTCTTGAA CAAATAAAAT TAACTATTGT AGTGTGAAA 109

(2) INFORMATION FOR SEQ ID NO: 773:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 109  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

- (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00849
- (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 773:  
 GATCAACAAG GTTTGCCACT GCTTGTATTA CCAGGGACTG GTTACAACCA TTATTTCTNT 60  
 TCATTTGCTT GGCTTATCTC ATATTAAAGT GAGTTTGGAG TTCTCCAAA 109
- (2) INFORMATION FOR SEQ ID NO: 774:
- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 110  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00850
- (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 774:  
 GATCCAGTTC TAAACTTTGG GATATTTTTT TTCAATTTTG AAGAGAAAAT GGTGAAGCCA 60  
 TANGAAAAGT TACCCGAGGG AAAATAAATA CAGTGATATT CTTACGCAAA 110
- (2) INFORMATION FOR SEQ ID NO: 775:
- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 108  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00851
- (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 775:  
 GATCTGTGTG CTCTTATCAC CAATCAGTTC AGACCTGGTT GATTTTGTAC TTTGGAAGCTG 60  
 TACCTTGAT GGTTTTGT TTATAAAAGAG AAACCTGAAG TACTCAAA 108
- (2) INFORMATION FOR SEQ ID NO: 776:
- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 108  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00852
- (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 776:  
 GATCACCATC TTAAATTTA CTTCAAAATA AAAGCATGTA AGTNACTGTT TTTCAAGAAG 60  
 AAATGTGTTT CATAAAAGGA TATTATATC TCTNTNGCTT TGACTIONN 108
- (2) INFORMATION FOR SEQ ID NO: 777:
- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 106  
 (B) TYPE: nucleic acid



(C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00853  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 777:  
 GATCCCCCTC GGAAGAGGGA CTCCAATGGG CATGTCCCCT CCGGAAATNC GGCCTCCTCC 60  
 CCCTGGAATG CNAGGNCCCC CTCCCCCGGN AATNCGCCCA CCAAGN 106

(2) INFORMATION FOR SEQ ID NO: 778:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 130  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00854  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 778:  
 GATCCCATCA TGAATTCATT GGAATTTGTG TTGCATGTAA GGCAATCTTT TCCNTGTTGT 60  
 AAATCTTCCG TTTTTTAATG TACATATATT TTGAAAAATA TGAATAAACA TGAAATTTTA 120  
 AAAGCTGAAA 130

(2) INFORMATION FOR SEQ ID NO: 779:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 104  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00855  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 779:  
 GATCATGGTG GGTCAGCTGT ACTGATTGTN ATCCTGACTT TGGCATTGGC AGCTCTTATA 60  
 TNCCGACGAA TATATCTGGC AAACNNATAC ATATNTAACT TTAN 104

(2) INFORMATION FOR SEQ ID NO: 780:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 107  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00856  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 780:  
 GATCTTTTCA CAGTATCCAT TTATTATGTA ATNCTTNTNA GAAAAGAATC TTATAGTACA 60  
 TTTTANTATA TGCAACCAAT TAAAATGTAT AAATTAGTGT AAGCAAA 107

(2) INFORMATION FOR SEQ ID NO: 781:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 109  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00857

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 781:  
 GATCAAAATG AAAGAAAATC ACAGAAATTA TCCTATGTGT ACTCCTCATC CCTCCTGCTG 60  
 TATATNTTCT NATTTTTTGC GTAATAAATN ATGTTAATTA CCAAATAAA 109

(2) INFORMATION FOR SEQ ID NO: 782:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 125  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00858

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 782:  
 GATCTCCAAT GTTTTGGGGA TGCTTTGAGT CTCAAAAAA ATTGATAATC AGAAAAGTAA 60  
 TTTTGTGTTG TTTGTTTAAT GTATCCCTGT TCTGTTTTTA ATTAAACTCC AAGTCTCATT 120  
 TTAAA 125

(2) INFORMATION FOR SEQ ID NO: 783:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 103  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00859

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 783:  
 GATCGAGGTG ACAAATANTC AGTCCNTANG TCCCCACAAT GACCTCACCA NNATGGCTTT 60  
 GGGGAGCTCT TCACCCTAAA GATTCGGTCT GGTGCTGCTAA TGN 103

(2) INFORMATION FOR SEQ ID NO: 784:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 102  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00860

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 784:  
 GATCTGGAGG CAAGATGCCA GGCCCCACAG GTGTTCTCAG GGCAGTTCTT GGTGTCTGCT 60

TCTCAGATAC CAAGGACTGG AATTAAAACC TTTCCTGGGA AA

102

## (2) INFORMATION FOR SEQ ID NO: 785:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 99
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00861

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 785:

GATCACAGCC GAAGAGTGAA AGGTGCTGCA ATGAATGTTA GCTGTGGCCA CTGTGGATTT 60

TTCGCAAGAA CATTAAATAA CTA AAAACTT CATGTGAAA 99

## (2) INFORMATION FOR SEQ ID NO: 786:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 94
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00862

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 786:

GATCAAGTTA TTTTNAATTT GGTTTTTACA TTGGAAACAA GTCAGTCATT CAGATATGAT 60

TCAAATGTCT ATAAACCGAA CTGATGTAAG TAAA 94

## (2) INFORMATION FOR SEQ ID NO: 787:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 102
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00863

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 787:

GATCTCTTCT TCTCCCTGTG GCCCCTGCGC TGTTGCCCCG TCCCCGTCAC CCCGCCGNN 60

ACTGAAATNT ATAATCTGAC TTCCTGTACA GAAACCTGCA AA 102

## (2) INFORMATION FOR SEQ ID NO: 788:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 93
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00864

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 788:  
 GATCTTGTTA GCAATGCTGT TTTNCTGTT AGTCGGGTTA GAGTTGGCTC TACGCGAGGT 60  
 TTGTTAATAA AAGTTTGTTA AAAGTTTAAT AAA 93

(2) INFORMATION FOR SEQ ID NO: 789:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 100  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00865

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 789:  
 GATCTTCAAG TGAACATCTC TTGCCATCAC CTAGCTGCCT GCACCTGCCC TTCAGGGAGA 60  
 TGGGGGTCAT TAAAGGAAAC TGAACATTGA ACCCTTTAAA 100

(2) INFORMATION FOR SEQ ID NO: 790:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 92  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00866

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 790:  
 GATCAGAATT TAAAATGTGT GATTCTTTTT CTTTCTGTAA GTATGTATTG CTATGATAAA 60  
 TAAAAAATGG CAGGACCATT NTTTTATNA AA 92

(2) INFORMATION FOR SEQ ID NO: 791:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 93  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00867

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 791:  
 GATCTCCAAC CAGGCCAGAG AAGATTCTCA CAGAAGGTTT TGAAGTCTAA GAAATAAATT 60  
 GGTTTGGTAA TAAATGGCTT CTGGTCAGAT AAA 93

(2) INFORMATION FOR SEQ ID NO: 792:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 114  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00868

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 792:

GATCTTGTAT CTTTGTATAA CGGATGTNAT TTGTACGAAG GGCAGTTCGT AAACAGCACT 60  
 TGTCNCTTTTA ATAAAAGAAT GTTTTGCAAA AAAAAAAAAA AAANCCCNAG GAAA 114

## (2) INFORMATION FOR SEQ ID NO: 793:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 90  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00869

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 793:

GATCTGTTTT GTACTTTTTTA TACTGTTGGA TACTTATAAT CAAAACCTTTT ACTAGGGTAT 60  
 TGAATAAATC TAGTCTTACT AGAAAATAAA 90

## (2) INFORMATION FOR SEQ ID NO: 794:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 88  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00870

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 794:

GATCCATTTC ATAAAGTATG ATTTGCCCAA ACCTGTACCA TTTCCGTATT TCTCCTGTAG 60  
 AAGTAAGAAA TAAATTCCT TAAATAAA 88

## (2) INFORMATION FOR SEQ ID NO: 795:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 89  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00871

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 795:

GATCTGGCGC TTGGGGGTAA GTGGNATGAT TTGCTAATAT TGAGNATCTG TTGTATCAAA 60  
 CATAATAAAC TTTTTTTTGA GATGTGAAA 89

## (2) INFORMATION FOR SEQ ID NO: 796:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 89  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00872

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 796:  
 GATCAGGGTG TCTCCTTGTC CTTCTNAGAT GTGGAGAAGA GGCTGCTGGC TACCCTAAAA 60  
 NTTGAAATAA AAGATTTTTG CCTTTGAAA 89

(2) INFORMATION FOR SEQ ID NO: 797:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 86  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00873

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 797:  
 GATCCATTGA GCCCAGCAGT CCAACCTGGG CAAAATAAGT GAGAGACCCT GTATCTGAAA 60  
 GTAATAATAA AAATAAAAAA TATAAA 86

(2) INFORMATION FOR SEQ ID NO: 798:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 86  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00874

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 798:  
 GATCCTTTTT GATAATCTCA TTCCTAGAAA TTAACTTA ATGAAATCCC TAATAAACT 60  
 CAGTGCTGTG TTATTTGTGC CTCAA 86

(2) INFORMATION FOR SEQ ID NO: 799:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 87  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00875

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 799:  
 GATCGAACAT TTCACCTCTC ATATTAAGTC TGGCAATGAT GACTATATGT ATTCCTGCCT 60  
 AAATAAATCA TCTATTAATC ATTAAAA 87

(2) INFORMATION FOR SEQ ID NO: 800:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 86  
 (B) TYPE: nucleic acid

(C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00876  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 800:  
 GATCTCCGAG TCAGGACGGT CGGCCAGACC CACGGGGTAA CGGGTCTAAT CGTGTAGGAA 60  
 TAAAGCTGTA TTCCAGTGCT TCCAAA 86

(2) INFORMATION FOR SEQ ID NO: 801:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 84  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00877  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 801:  
 GATCCCCGCG ATACTTCAAC GCCTTCTGAC TTCCAGGTGA TGACTGGGCC CCCAATAAAT 60  
 CCCGTCTTTG GGTCTCTCTG CAAA 84

(2) INFORMATION FOR SEQ ID NO: 802:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 84  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00878  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 802:  
 GATCCCTCAA AACCTCACTA ACTGGAAGGA TGATTTTGTG TCAGTTTGTA CTCCTAAATA 60  
 AAAAGTAAAC ATGACACCTC TAAA 84

(2) INFORMATION FOR SEQ ID NO: 803:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 88  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00879  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 803:  
 GATCTGTGAA GAAATGAAAT AAAATGGTAT TTAGTAAGAA ATCTCTATTT TAAGAAAAAA 60  
 AGTAAAACCT GTTATAAACA CATGCAAA 88

(2) INFORMATION FOR SEQ ID NO: 804:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 82  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00880  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 804:  
 GATCGTGCCA TTGTGATATG AATATGCCTT ATATGCTGAT ATGAATATGC CTAAAAATAA 60  
 AGTGTTCCTT ACCCCTGCCA AA 82

(2) INFORMATION FOR SEQ ID NO: 805:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 81  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00882  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 805:  
 GATCTTAAGT CATACATTTN AATTGTNTAG AGGTTGTTCA ACTGAAGGAA TAAATGTCTA 60  
 TNAANCTAAA ACAAATGGAA A 81

(2) INFORMATION FOR SEQ ID NO: 806:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 78  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00883  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 806:  
 GATCAAGTTT GTACATAACA CTAGTGGCAT TTCTTATCAA AAGGATTGGA TAATAAAAAAT 60  
 AAGTTTCTAC TGGGTAAA 78

(2) INFORMATION FOR SEQ ID NO: 807:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 78  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00884  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 807:  
 GATCCCCCA GCAAGGATAN CATTCAAAGG AGCTCACATT TATGGAATGG ATGAATCAAT 60  
 AAATTAATTC ACTTTAAA 78



## (2) INFORMATION FOR SEQ ID NO: 808:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 77
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00885

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 808:

GATCCCATTT CTGATGGATG TGTCACACCT TTTCTGTCAA AATAAAATGT CTTGGAGGTT 60  
 ATGACTCCTT GGTGAAA 77

## (2) INFORMATION FOR SEQ ID NO: 809:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 77
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00886

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 809:

GATCTGTGTT AATCTGAGTA ACTTATTGCC TAGCCTATAA ATAAATTCCA AAATATCCAA 60  
 TTCATTCTT CTTGAAA 77

## (2) INFORMATION FOR SEQ ID NO: 810:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 75
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00887

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 810:

GATCATCCTT CCTGGCAAAT AAATTCCCGT TTCTATCCAA AAGAGCAATA AAAAGTTTTC 60  
 AGTGAAATGT GCAAA 75

## (2) INFORMATION FOR SEQ ID NO: 811:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 76
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00889

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 811:

GATCTGAAAG CCTGAGTGTG TGTACGTGCG CGCGTGCGTG AAGGCCCTGC CACGATTAAA 60

GACTGANACC GGCAAA

76

## (2) INFORMATION FOR SEQ ID NO: 812:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 129
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00890

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 812:

GATCTTTAAT ACAATATAGA AATTGTGTAA TAGTTATTAT AAATGTTAAT ACACAACTTT 60  
 CAGGTAATTT TAACTGATTA TTTCTTTTGC TCTTTTAACT TAAGTTATTA AAGTTTAAAA 120  
 GTTCGTAA 129

## (2) INFORMATION FOR SEQ ID NO: 813:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 74
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00891

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 813:

GATCTGGTCT CGGTGGTCCT TCCCCGCAGG CAGGTGTCAG GACCGGCCTA ATAAACATGT 60  
 GTGGCCTCCT CAAA 74

## (2) INFORMATION FOR SEQ ID NO: 814:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 82
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00892

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 814:

GATCCAAATC CCATTACAGT TGTATAAAGA AATAAAATTT TGTACTNATA TTATTAAAAA 60  
 TCACATTTTT AATATTTGTA AA 82

## (2) INFORMATION FOR SEQ ID NO: 815:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 72
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00894

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 815:  
 GATCCCCAGA GACCCCATTT GCCTCTCAAC ACTCAGACCT TCAACTGTTT TTNAATAAAT 60  
 CTACTTTTAA AA 72

(2) INFORMATION FOR SEQ ID NO: 816:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 72  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00895  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 816:  
 GATCCTACAC CCNGAGCCTC AGAGCACTGC TACTTTTTAA AATACTTCTT TCTCTTAAAA 60  
 GTCTTTACCA AA 72

(2) INFORMATION FOR SEQ ID NO: 817:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 71  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00896  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 817:  
 GATCAGATGT TAAGACTGAC ATTTCCAAGG TTGGCTACTA TGTAATAAATA AAATTACACA 60  
 AATTGTGCAA A 71

(2) INFORMATION FOR SEQ ID NO: 818:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 71  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00897  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 818:  
 GATCTGAAGT AATTGTGCTG TATTTATGTT TATTCACCAG TCTTTGATTA AATAAAAAGG 60  
 AAAACCAGAA A 71

(2) INFORMATION FOR SEQ ID NO: 819:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 84  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00898

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 819:

GATCTAGCTC TCTGATTCCA TACATTCCAG ACTTCTCAGT GGATTGTGTA TAAACTATAA 60

ATAAAAATAG CTCTCATTTA TAAA 84

(2) INFORMATION FOR SEQ ID NO: 820:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 73

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00900

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 820:

GATCATGTCT TTTCCATGTG TACCTGTAAT ATTTTCCAT CATATCTCAA AGTAAAGTCA 60

TTAACATCAG AAA 73

(2) INFORMATION FOR SEQ ID NO: 821:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 69

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00903

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 821:

GATCTGATTA TTTACTTTGT TTATTGTCTA TATGCCTTTT AAAAAAATAA ACTTGTTATG 60

CAAAATAAA 69

(2) INFORMATION FOR SEQ ID NO: 822:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 69

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00904

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 822:

GATCCAGTTG TAGCTGCCAT CAGATGCCGG AGACTCGCCC NTCAATAAAA AAATCTCTTC 60

TAGTGAAA 69

(2) INFORMATION FOR SEQ ID NO: 823:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 72

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00905

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 823:

GATCACTGTA AATGGTAATC AGTTGGAATT CTCCTAAATG TCTTCCAGAC ACTAGTAAAA 60

AACGACCTGA AA 72

(2) INFORMATION FOR SEQ ID NO: 824:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 68

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00906

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 824:

GATCTTTCTA CCTGCCTTTC CATGTCATGA GAGGAAGAAA CAAGAATGAC AAGTGTATGA 60

CTNCCAAA 68

(2) INFORMATION FOR SEQ ID NO: 825:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 67

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00908

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 825:

GATCACGTAC CTGTGCAGAA ACCGCCTCTG TGGCTGCATT TGAAATAAAA CCCGACCCAG 60

CAGCAA 67

(2) INFORMATION FOR SEQ ID NO: 826:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 342

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00910

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 826:

GATCATATTT TATGAACAGA AAGACTCAGG ACATATTAAA AAATAAACTG AACTAAAACA 60

ACTTTTGCCC CTGACTGATA GCATTTTCTT TGAAGGGCTA TGATACCATT 120

TATTAAATAG TGTTTTATTT TAAAAACAAA ATAATTCCAA GAAGTTTTTA TAGTTATTCA 180

GGGCACTATA TTACAAATAT TACTNNGTTA TTACACAAAA AGTGATAAGA GTAACATTG 240

CTATACTGAT GNTTGTNTAC TCAAAAACCT CNGNTNAACN GTATGTAATC TNAGTTCACT 300

GCACTTAAGT TCACCNAACA TNNATNAATG TCAATGNAGA AA 342

## (2) INFORMATION FOR SEQ ID NO: 827:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 72
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00911

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 827:

GATCTAAGAA GTTGTGAATG TTGTAAATCA TTTAGCCGTT GCAATAAATG TAGAGGAAAT 60  
GCAGTGTGCA AA 72

## (2) INFORMATION FOR SEQ ID NO: 828:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 65
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00912

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 828:

GATCACCTGA GGCCATGAGT TTNAGACCAG TCCTGGTAAC ATAGCAAGAC CTCCATCTCT 60  
ACAAA 65

## (2) INFORMATION FOR SEQ ID NO: 829:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 65
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00913

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 829:

GATCCTAGAC AGCGCCTTAT CTATGATTGA GTGTCCGTGT AAATAAATTC CTACTTAGAC 60  
TTAAA 65

## (2) INFORMATION FOR SEQ ID NO: 830:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 65
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00914

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 830:

GATCTGGGAA CTTTTTNC TG TACAAATCTG TTAAAAAAA AAAAAAGGNA CCNCATTGAT 60  
TTAAA 65

(2) INFORMATION FOR SEQ ID NO: 831:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 63
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00915

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 831:

GATCCAAATT AAAACCTGGT AGAATCTAAT ACATTGACTG CAATTAAAT GTTGCCTGG 60  
AAA 63

(2) INFORMATION FOR SEQ ID NO: 832:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 68
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00917

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 832:

GATCCAGTTC TAAGTGTCAT CTTTTATNAT NAAGACAATA AAATCTTGAG TTTATGCTTC 60  
ACTTNA 68

(2) INFORMATION FOR SEQ ID NO: 833:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 63
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00918

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 833:

GATCCACGGT TGTNACCATG TATTACCACA AATTTAACA TAAAAAATTG TTTTAAGAGT 60  
AAA 63

(2) INFORMATION FOR SEQ ID NO: 834:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 109
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00919

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 834:  
 GATCTACTGT CATTGNGATG CAATTTCTG TTACCTTGAA AAAATAAAAA TGTTAACAGG 60  
 AATGCAGTGT GCTCATTCTC CCNAAATAGT AAANCCCACT GTATACAAA 109

(2) INFORMATION FOR SEQ ID NO: 835:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 62  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00920  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 835:  
 GATCCAATTA CACACATTCG TTCACAACCTC AACACAAATT CCTATTAAAT ATTAAAAGTA 60  
 AA 62

(2) INFORMATION FOR SEQ ID NO: 836:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 61  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00922  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 836:  
 GATCTTAAAC ATAGGAAAAC CATACGTGTT CATGATAATA AAATGCTTTC TATGAAATAA 60  
 A 61

(2) INFORMATION FOR SEQ ID NO: 837:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 56  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00924  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 837:  
 GATCATACCA CTGCTCTCCA GCCTGGCTAT CAGAGTGAGA CTCTGTCTCA CAGAAA 56

(2) INFORMATION FOR SEQ ID NO: 838:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 56  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00925



- (ix) FEATURE:  
    (D) OTHER INFORMATION: "N"=unidentified base  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 838:  
GATCAGACAC TTAACCCTTA TAANTTAAAG TCAATAAAGC ACCTTTTAA AGGAAA 56
- (2) INFORMATION FOR SEQ ID NO: 839:  
    (i) SEQUENCE CHARACTERISTICS:  
        (A) LENGTH: 57  
        (B) TYPE: nucleic acid  
        (C) STRANDNESS: single  
        (D) TOPOLOGY: linear  
    (vii) IMMEDIATE SOURCE:  
        (B) CLONE: HUMGS00926  
    (ix) FEATURE:  
        (D) OTHER INFORMATION: "N"=unidentified base  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 839:  
GATCAAAGTG AAACAATGTT TGGATGCAAC GCAGAATAAA AGAATATAAG AAATAAA 57
- (2) INFORMATION FOR SEQ ID NO: 840:  
    (i) SEQUENCE CHARACTERISTICS:  
        (A) LENGTH: 52  
        (B) TYPE: nucleic acid  
        (C) STRANDNESS: single  
        (D) TOPOLOGY: linear  
    (vii) IMMEDIATE SOURCE:  
        (B) CLONE: HUMGS00929  
    (ix) FEATURE:  
        (D) OTHER INFORMATION: "N"=unidentified base  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 840:  
GATCTAATTA AAAGACCTTC TGCACAGCAA AAGAACTAA CAACAGAGTA AA 52
- (2) INFORMATION FOR SEQ ID NO: 841:  
    (i) SEQUENCE CHARACTERISTICS:  
        (A) LENGTH: 52  
        (B) TYPE: nucleic acid  
        (C) STRANDNESS: single  
        (D) TOPOLOGY: linear  
    (vii) IMMEDIATE SOURCE:  
        (B) CLONE: HUMGS00930  
    (ix) FEATURE:  
        (D) OTHER INFORMATION: "N"=unidentified base  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 841:  
GATCCCGGCA GAAGCTATGA AAGGGAATAA AGAGAAAAGA AGTACCCAGA AA 52
- (2) INFORMATION FOR SEQ ID NO: 842:  
    (i) SEQUENCE CHARACTERISTICS:  
        (A) LENGTH: 52  
        (B) TYPE: nucleic acid  
        (C) STRANDNESS: single  
        (D) TOPOLOGY: linear  
    (vii) IMMEDIATE SOURCE:  
        (B) CLONE: HUMGS00931  
    (ix) FEATURE:  
        (D) OTHER INFORMATION: "N"=unidentified base

- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 842:  
GATCTTTT TAG TTTCAACTCA GCTTTTACAA TAAAANGGAT TTGTATTGCA AA 52
- (2) INFORMATION FOR SEQ ID NO: 843:
- (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 58
    - (B) TYPE: nucleic acid
    - (C) STRANDNESS: single
    - (D) TOPOLOGY: linear
  - (vii) IMMEDIATE SOURCE:
    - (B) CLONE: HUMGS00932
  - (ix) FEATURE:
    - (D) OTHER INFORMATION: "N"=unidentified base
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 843:  
GATCTCTTTT CAGAAGTGTC TATAGAACAA TAAAATCTT TNACTTCTGA CCTTGAAA 58
- (2) INFORMATION FOR SEQ ID NO: 844:
- (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 53
    - (B) TYPE: nucleic acid
    - (C) STRANDNESS: single
    - (D) TOPOLOGY: linear
  - (vii) IMMEDIATE SOURCE:
    - (B) CLONE: HUMGS00934
  - (ix) FEATURE:
    - (D) OTHER INFORMATION: "N"=unidentified base
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 844:  
GATCCTAAAT CATGACTTAC CTGCTAATAA AAACCTCATTG GAAAAGTGAG AAA 53
- (2) INFORMATION FOR SEQ ID NO: 845:
- (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 52
    - (B) TYPE: nucleic acid
    - (C) STRANDNESS: single
    - (D) TOPOLOGY: linear
  - (vii) IMMEDIATE SOURCE:
    - (B) CLONE: HUMGS00935
  - (ix) FEATURE:
    - (D) OTHER INFORMATION: "N"=unidentified base
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 845:  
GATCAAGCTG TAAAAAACN AAAAAATTAA TAAAAATTTC GAGAAATANA AA 52
- (2) INFORMATION FOR SEQ ID NO: 846:
- (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 51
    - (B) TYPE: nucleic acid
    - (C) STRANDNESS: single
    - (D) TOPOLOGY: linear
  - (vii) IMMEDIATE SOURCE:
    - (B) CLONE: HUMGS00936
  - (ix) FEATURE:
    - (D) OTHER INFORMATION: "N"=unidentified base
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 846:  
GATCAGCATT GTGACTTGGA GATAATAAAA TTTAGACTAT AAACCTTGGA A 51

## (2) INFORMATION FOR SEQ ID NO: 847:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 62
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00937

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 847:

GATCTGAGGT AAACCTTTGAA GTAAATAAA AGCTGTGTTT GAGCATCATT TGTATTTCTGA 60  
AA 62

## (2) INFORMATION FOR SEQ ID NO: 848:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 59
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00938

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 848:

GATCCTCCCT CCCCTAATTA AAGTCTCTTT TTGCCCTTT GGGCTGNCAT GAGGTCAAA 59

## (2) INFORMATION FOR SEQ ID NO: 849:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 71
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00955

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 849:

GATCAGAATT TTAAATNAAA GGTTTTTTCT TTAAATNATT TGTATTACTT TATTAAACT 60  
CTGATATTAA A 71

## (2) INFORMATION FOR SEQ ID NO: 850:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 661
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00972

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 850:

GATCCGGTTC TGGGACAGCA GGGGGCCCCA CTGCACCCAG GTCATCCCTG TGCAGGGCCG 60

```

GGTCACCTCC CTGAGCCTCA GCCACGACCA ACTGCACCTG CTCAGCTGTT CCCGAGACAA 120
CACACTCAAG GTCATCGACC TGCCTGTCAG CAACATCCGC CAGGTGTTCA GGGCCGATGG 180
CTTCAAGTGT GGTTCCTGACT GGACCAAAGC TGTGTTTCAG CCGGACAGAA GCTATGCACT 240
GGCAGGCTCC TGTNATGGGG CCCTTTACAT CTGGGATGTG GACACCGGGA AACTGGAGAG 300
CAGACTACAG GGACCCCAT GCGCTGCCGT CAACGCCGTG GCCTGGTGCT ACTCCGGGAG 360
CCACATGGTG AGCGTGGACC AGGGCAAGGA AGGTTGTGCT TTTGGCAGTA GGGCCACGAC 420
CTGCCTGCTT GGGNTGGAGN TTTTNNCCCG AAGCTNAAAG TTTCTTNNGG GGCAATGAAG 480
GGGTTTGGGG TTTGGGATTN GAGNTTNGNC TTGGGATTTA ATTGGGNAAG AAGGCTTGGA 540
AAGACCTTGN CTTTTTTNTT TAAANTNAA GTATTGGTTT GGGGGNTTAA GGTAATTTTT 600
TTTTNGAATT TTAANTTNAT NTCTAAATTT TTTTCCAAAT TTTGAAAAAT TTTTTTTNAA 660
A
661

```

## (2) INFORMATION FOR SEQ ID NO: 851:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 641
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00973

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 851:

```

GATCTTGAT GTCTATTATA GGAGAAGTAT GTCCTGCCAA TGTACAAGAA GGCAGCATTG 60
TAGGATTAAC ATTCTTGTCT ACTGTATATT ATCTTGGAAG GCTCTTGTTA ATATGTTACA 120
CTTAATATTC TCCACAGTTA CCTTTAGAGA GAATTTATGA GAAGTTAGTT TCTGATGCAG 180
AGGTTTTTAG GCTGTGATTT CATCAAAAGT CCTAATAGCA TTCTACCTCA AAGGGACACT 240
TAGNATGCCT AAAATTTATT CACTTAGTTT TCCTTTTTTA TTTGAAAAAA TACATGACAT 300
GTAATCTTTT TTTCTTGAAT TCTTCTCAG ATTTTAAAGT ACTATATTAA AGAAAAAAT 360
TAATGTCTAA AGGCCTAGCA TTCCTTGCG GACCCCTATA CTAACCATGG TAATGGGGGA 420
GAGGGGTGGG GCAGNTNNGT AGGGGNACCA GGTTCAGGC CTCAAGCTTC CCAAAGCCAT 480
TTTTNTNAAA TGGGAAATCC NTNAANTTNT GGAACCCGCT TTGNTATNGG NGCCCTTTT 540
TTTAAAATTC CNGGCCTTTT TTTNNTTGGT AATGGGGGTT NCTGTTTGNG GTTTTAACCT 600
NANCCTGGNC CGGGGGGGTT TAAAGGAATG CTGNCTGCAA A
641

```

## (2) INFORMATION FOR SEQ ID NO: 852:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 627
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00974

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 852:

```

GATCTGCTNC AGTGCTCTGA GCCCTAGGAT TCATCTNTCT TTTACCGTA GNGCGCNNGA 60
CTGGCATTGT ATTAGCAAAC TCATCACTAG ACATCGTACT ACACGACACG TACTACGTTG 120
TAGNTCACTT CCACTATGTC CTATCAATAG GAGCTGTATT TGCCATCATA GGAGGCAACA 180
TTCATGATT TCCCCTATTC TCAGGCTACA CCCTAGACCA AACCTACGNC AAAATCCATT 240
TCACTATCAT ATTCATCGGC GTAAATCTAA CTTTNTTCCC ACAACACTTT CTCGGCCTAT 300
CCGGAATGCC CCGACGTTAC TCGGACTACC CCGATGCATA CACCACATGA AACATCCTAT 360
CATCTGTAGG CTCATTCATT TCTCTAACAG CAGTAATATT ANATAATTTT CATGATTTGA 420
GAAGCCTTCG GTTTCGAAGC GAAAAGTCCT AAATAGGTAG GANGAACCTT TCCATTAAAC 480

```

CTGGAGTGAC TATATGGNTT GCCCNTACCC TTACCANACA TTCNGAGGAN CCCGTATACA 540  
TAAAATTNTN GNNAAAAAAN GGANGGNTTC GNACCCCCCA AAGGTTGGTT TNANGNCAAC 600  
CCCCNTGGGC TCNATGGTTT TTTTAAA 627

(2) INFORMATION FOR SEQ ID NO: 853:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 617  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00976

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 853:

GATCAGANTG CCCCTCCACT CATGAGACTC TTCATTTTGT CCACTTTGAC AGGAAAAGTG 60  
GGAATGTATG CAGAGCTCTC AAAAGAAACA AAAAAGGCCA AAACGGTGCC TTCAGCCACA 120  
TCCTCTGAAT TGGCCCTGAC TTGGACTAAA NCCNCTAATG CAAAATCCCT TGACAAAAGC 180  
GCATAGGTTA TTTCAAACCA GCATTGTTTT TTATGTAACC TGTTTTACCG CATCTTCTCA 240  
GCAGCTTCTG ACCACTGCTC AATTTTTTCC TTTACAGCCA TTGTTCTGGT GGACAAATAA 300  
CCTAGGTACT CCAAATCCTG GCAGGAAAAA TATACAGCAT TATGAAACAG CACTCAGTAA 360  
TCCTAAAATG GATTTTCCAA AGCTGGTTAC ACATGNCCTG CAAAGTCTTA TTTAAATTTA 420  
AAAGGCCTTT CTCATTTACC AGGGGTTTAG GTCAACGNNG GCAAACCCCT GGGGGAATTT 480  
AAATTGGGAA GGTTANTTNC CTTTNGTAAA TTCATAGGNN CCAAANGGCN GGGNAGTTAA 540  
TTTTTCCATN GGGTTGGTGG CNCCCGGGNT TCATTGGTNT TNGGCCCCAN GGAATTTAAT 600  
TTTTTTAAAN CCTTAAA 617

(2) INFORMATION FOR SEQ ID NO: 854:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 602  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00977

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 854:

GATCCCGTGC GGC GCGCTGC CCGAGGGGAG CAAGGACAGC TTTGCAGTTC TCCTGGAGTT 60  
CGCTGAGGAG CAGCTGCGAG CCGACCATGT CTTTATTTGC TTCCACAAGA ACCGCGAGGA 120  
CAGAGCCGCC TTGCTCCGAA CCTTCAGCTT TTTGGGCTTT GAGATTGTNA GACCGGGGCA 180  
TCCCCTTGTC CCAAGAGAC CCGACGCTTG CTTTATGGCC TACACGTTTCG AGAGAGAGTC 240  
TTCGGGAGAG GAGGAGGAGT AGGGCCGCCT CGGGGCTGGG CATCCGGCCC CTGGGGCCAC 300  
CCCTTTTNAG CCGGGTGGGT AGGAACCGTA GACTCGCTCA TCTCGCTGG NTTTTGTCCGC 360  
ATGTTGTAAT CGTGCAAATA AACGNTCACT TCCGAATTAA GCGGTNTATT TTTTGAANGT 420  
TTAATAATTG TGTTTTNTGA ATACTGAAGT ATTTGGCTTT AAATTCCTAA NTTAAAAATT 480  
TAATNTTTTA CTTTTTTAAT TGCTGGGTTT AAGATNGTTN AAGATTATCC TTGNAACTTT 540  
NNGGGGGANG TTNTTATTTT NGAGTCTTTT NGGAANAGNC TTNAGGCTTT TNNACTTNGA 600  
AN 602

(2) INFORMATION FOR SEQ ID NO: 855:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 595  
(B) TYPE: nucleic acid

(C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00978  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 855:

```

GATCCCAGGG CTCCCTGCCA TTTTAGTGTC TTGGTGTAGT GTAACCATT T AGTGGTTGGT 60
GGCAACAATT TTATGTACAG GTGTATATAC CTCTATATTA TATATCGACA TACATATATA 120
TTTNGGGGGG GGGGCGGACA GGAGATGGGT GCAACTCCCT CCCATCCTAC TCTCACAGAA 180
GGGCCTGGAT GCAAGGTTAC CCTTGAGCTG TGTGCCACAG TCTGGTGCCC AGTCTGGCAT 240
GCAGCTACCC AGGCCCACCC ATCACGTGTG ATTGACATGT AGGTACCCTG CCACGGCCTA 300
TGCCACCTG CCCTGCTTCC TGGCTCCTTA TCAGTGCCAT GAGGCGAGAG GTGCTACCTG 360
GCCTTCCTGC CAGGAGCTTT NCACCCACTN ACATTCCGTC CCCGCGGCTT AACTGNAGCA 420
AGCGTGGNCC TAGGACAGNA GGAGCTTCGG GCCCNGTTTN ACCTTGCGGT GGGGCTNANG 480
GGTTGGCATT TCTTGCTTGG GGCCACTGGG TTNAATTTT GGGNTGATNA TTGGGGNGAG 540
GGGTGGGGTA ACAAACCAN TTTTGGNNAA GNTTGGGANG NTTTTGNCTT TTAAA 595

```

(2) INFORMATION FOR SEQ ID NO: 856:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 581  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00979  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 856:

```

GATCTGGAAT TGCAGCCCAC ATAAACATAA AGGAGGATGT CCCTGGTCTG TTCCATCCCC 60
ACGGATGGTG TTGCTGCTGG GCAACAGTGT TGGCTTCTTT NAAGTACCCC CTTTCTCCT 120
CACCCACCTC CAAACTGACT AGCACTCAGA GGGACTTATG ATAAAGGTTT AGCTCCAGGG 180
GTAGTACCTG AGTGTGTGCC ATGCCCCTTC AGACCAGCTG CTTCCATCAG AATTCCAGGG 240
TCACAGCCCC AACAGAAGCA GCAGTGCCCTC TGTAGGAGGG GTGCTGGGCT CTGGNCTTCT 300
NATGCAGAGA GGTCCGGGAC AGGGTCAGTA TCGTGGGCAT GTNTATAGCT TCCCAAGTTC 360
TTTTACAAGT CCCNTGCTGG GACTCCCTGA NTTTTACTTTT GGTNGGNTTC CTAGGTNCTA 420
ATTGGTTTTA CAAACTTACA NTTTTNTAGG AATTTGANTT ANGATTANCT TGNTTTAATT 480
TAATTGTAGA NTTTNGGGGC CTTTTTGGGN CTCAAATTTT NCCATTACAA GGNNTTATTN 540
GGGAAANAAA GNNGTTTNA TNAAAATCCT TGGCCAGGAA A 581

```

(2) INFORMATION FOR SEQ ID NO: 857:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 569  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00980  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 857:

```

GATCTAAATC AGACAGGAGT TGGTCTACAT AGTAGTAATC CATTGTTGGA ATGGAACCCCT 60
TGCTATAGTA GTGACAAAGT GAAAGGAAAT TTAGGAGGCA TAGGCCATT T CAGGCAGCAT 120
AAGTAATCTC CTGTCCTTTG GCAGAAGCTC CTTTAGATTG GGATAGATT C CAAATAAAGA 180

```

```

ATCTAGAAAT AGGAGAAGAT TTAATTATGA GGCCTTGAAC ACGGATTATC CCCAAACCCT 240
TGTCATTTCC CCCAGTGAGC TCTGATTTCT AGACTGCTTT GAAAATGCTG TATTCATTTN 300
GCTAACTTAG TATTTGGGGT ACCCTGCTCT TNTGGCTGTN CTTTTTTTGG AGCCCTTCTC 360
AGTCAAGTCT GCCGGATGTC TTTTTTTACC TACCCCTCAG TTTTCCTTAA AACGGGNACA 420
CAANCTCTAG NGNGGTGTTA NGANTAATNG TTACTNGGGT TANTGGGGTA NTTNNTGGGG 480
TNTNGGTTTG GGGCTAGGCA TTGTGGTAGG TTTTNAANAA TTAGNGGGTT GGNCCCCNTT 540
NGNTGGGGTG NTTTCANGGT NGAATNAAN 569

```

(2) INFORMATION FOR SEQ ID NO: 858:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 566
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00981

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 858:

```

GATCCCACCC NGGCTCTCC TGGAAGTCTG AACCTGCTGT GGAAGGAATT GGCCATGACC 60
TTCACCTCTG GAGAGTAGGG TCTATGGCGA GGGAAAAGGG NNTTCACCAT GATAACCTAG 120
TGCCTCCATA GAGGGGTTTG GAAAAATTCC AGTCCGATTT CTTTGTGTGT CAGCTGACTT 180
CCTTAGCTGA TTGTTCCAC TTGCACCTCT CCACCTTTGG CACTAGAACT CCTGAGACAC 240
CACTTCTCAT GCTTCTCCCT CCCTACCAGC GGTCAAGGCT TTGGAGCCAC TCTTTTGTA 300
CTCCAGATTA TTAAAGAGA AAAGTACAAG ACAGAAATCT TCTAGCACTT TGTAACACA 360
GTTGATTAAC CCTCTGGGN GTATTTTTTG GGCTTTATAT AAAANCANGG TTTTAAATT 420
NGTAAAGTNT AAGTGCCATT AGGAANATGC ACCAGGGCAT ATTTTGGTT NAAGGTGGTT 480
TTTTCAATGG TTTTNCAGN TTNCATTTTC AAAAAANGG TTTTAAAT GGAGGTTGTT 540
NTTAAANNT TCNTGANTGG TGAAA 566

```

(2) INFORMATION FOR SEQ ID NO: 859:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 556
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00982

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 859:

```

GATCTACAAT TACTAATTAA AGCTGTGAAT CTNTCCCTG CTGGAACAAA TTCAAGATGG 60
GAAGTTATTG CTAATTACAT GAACATACAT TCTCCTCTG GAGTCAAAAG AACTGCCAAA 120
GATGTTATTG GCAAAGCAAA GAGTCTCCAA AAAGTTGACC CTCATCAAAA AGATGACATA 180
AATAAAAAGG CATTTGATAA GTTCAAAAAA GAACATGGNG TGGTACCTCA AGCAGACAAC 240
GCAACGCCCT CAGAACGATT TGANGGTCCA TATACAGACT TCACCCCTTN GACAACAGAA 300
GNACAGAAGC TTTTNGAACA AGCTTTGAAT ACATACCCAG TAAATACANC TGAAAGATGG 360
GNANAAATAG CAGTAGCGGT GCCTGGCAGG NCAAGGAGG GNCTGCATNN ANCCGGTTNC 420
AGGGGACTTT GTCGNGNTGG GTAAAGCCAA AGGAAGCTTG TTCCAGGTCN ANGTGCTGGA 480
TGCAAGTTGG GGCNTGGNAT TNNCNAATTT TTGTGGGGT GTTCCTTTTT TTANTAAACC 540
TGNANTTCTT TTAAA 556

```

(2) INFORMATION FOR SEQ ID NO: 860:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 555  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00983  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 860:

```

GATCTGGATT ATTTGTCTAA GTGAGAGATT GCGAATATCA AAATATCTGT CTCACTTCTT 60
CTGTGAATNA CACAGAGTAG AAATAAATTC ACTTTAAAAA TATGACTGAA TTTTGAAAAT 120
CAAGACTGAA TCTCACATAG CTGCAGACAG GAACTAAGCC AGCCTCTTTG TATGTGGTAA 180
CAAGTACAGT ATAAGANTGA AAGATTTACC ATCCTTGAAA GCTCTAATGA AAATCAAATC 240
CAGCAATATA TATTCAACTG TGTACAGGAT TTAAGAACTT ATTTTATGAA GGAGTAATAG 300
TGTGTAGATA TAGATTCTGA AGTCTTTAAA CGTGCCTTAA TAAATNAAGT TCNCTGGCAT 360
TGAGNTGANN ACCAGGTGAC CNTTGGGGNC AAAAACCNCN ACAAGTGATT NGCACACCAG 420
TATACNTTCA CCANTATACT NTNTGCACAC ACANCNTTTG TTTNGGTTCA GGGTTTTGCA 480
AATNGGTCCN ATGTATTGGC ACTGGCGTCT TTGNATTGTG TAAGTGGNTA TTTTNTGAGG 540
NTAGCGTGGT NNCNN 555

```

(2) INFORMATION FOR SEQ ID NO: 861:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 554  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00984  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 861:

```

GATCCATGTC TCAGCCTCCA CCCC GCCACA CCTGTCTGTG CAGCCCACCG GCCTTACCTT 60
CTACCCTGCC GTGGATGTCC AGGCCTTTGC CGTCCTCCCC AACTCCTCCC TGGCTTCCCT 120
CTTCCTGATT GGCATGGTAA GCAGTTCCTG GGTGAGACAG ATGAGGAGCC CCAGACAGTC 180
CCAACAGCAC TGTCTTTGGA GTCAGGAGAC CATGTGAATC CTGTCTGGAT TCAAACCTGG 240
ACTGTGTCAC TCCGGAGCCT GAGGCTTGAG TCACTGTACT CAATGGTGCC GACTCCTGGA 300
GGTATTCAAT CACCCAGCCA TTCACTAGTG CGTTTGTTTA CTTATTCAAT CAATTATTCA 360
TTCAGTCAAT TTCTCATTCA TTCANTTATT CATTCCATGT TGGCTTGAAA TATGTGTACT 420
GTNCCAATTN ATCCATTTAT ATCTTTAGTC ATTCAATTAT GCATTNGTGG TATTTGTTCA 480
TTNATTCAAT TTTAATTTN ATTNAGTTAN TNNNTNGGTT GGTGNCTTGG NGTANNGTNA 540
TACATTTGNG GAAA 554

```

(2) INFORMATION FOR SEQ ID NO: 862:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 549  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00985  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 862:

```

GATCCTATGG TTCAGGAGGC CAGAAATTTT CACCTCTAGG AGGTGGTGGT GGCATAGGTT 60

```



```

ATGAAGCTAA TCCTGGCGTT CCACCAGCAA CCATGAGTGG TTCCATGATG GGAAGTGACA 120
TGCCTACTGA GCGCTTTGGG CAGGGAGGTG CGGGNCTGTG GGTGGCAGGG TCCTAGAGGA 180
ATGGGNCTGG AACTCCANCA GGAATATGGT AGAGGGAGAT AAGAGTACGA AGNCCAAACA 240
AAAAACCCCG ATTTTAGATG TGATATTTAG GCTTTCATTC CAGTTTGTGTT TTGTTTTTTT 300
GTTTAGATAC CAATCTTTTA AATCNTTGCA TTTTAGNAAG AAGCTATCTT TTAATGGTTG 360
TAGCAGTTAT TGACCTAATA TTTGAAATGG CTGTTGGCAG TAAATTATGA ATCAGTTTTT 420
GACCAGGNGA TTTTTTTNCN TNTATTCCTT ANTTTCCTGT TNCTGATATN CCCCCAAGTA 480
TGCAGTTNCT NNNCNCTNAA TTCCANGGNN CCATTTTTTT TTCNNGGTTT AANAATNGAA 540
TNGNTTAAA
549

```

## (2) INFORMATION FOR SEQ ID NO: 863:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 543
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00986

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 863:

```

GATCAGCAGT CTTCTGCTGC CTTCTTAATG TTTCACCTAA GTTCCCATAG TTGCTCTCAA 60
AAAGTTTCTT GGCCCTCGTG GGCCAGTNTG GAGGGGCTGT ATCATCATTC ATNAGGAGCG 120
TCACTTGGTG GTTTAGGGGG AAATAATCTA TTCTNAAGAT TGAAGAGAGT GCAGGATTTG 180
GGGGGTTGAC TCTACATCCT TCAGTATCAG GGCTTATCTC CTTGTNTTAC CTCCTAGGAG 240
ACCCTCCTGT TCTTAACTGT GGGCGATGAG AAAGGTGGTG GACTCTTCTT ACTGGCAGGG 300
CCACCTGCGT CTGTGGAGAC CCTGGGGCCC AGGGTGGCTG AGGTCCTGGA AGGCAAAGGA 360
GCAGGAAGA AAAGCCGTT TTTCAGGGCA AGGCCACCAA GATGAGCCGG CGGATGGAGG 420
GCGCAGGCGG TTCTCCAGGN CTACATCAGC AACGNAGAGT NCTAAGNANT TANGGCTTTA 480
GGGCACTTAN CTNCTGGTTT CCACAGGAAT CTTTNGTCA ATNAAATTAG TTTGCCTCAG 540
AAA
543

```

## (2) INFORMATION FOR SEQ ID NO: 864:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 538
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00987

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 864:

```

GATCATTTCT ATAAAAGAAA TGGTCATTTT ACTTAGATGC CAGTCTACTT TATAAAGACA 60
AATGGATTAT AGACTTAAAA ATAGTCATTT TTCTTATTCA TAAATCTGAC AGGCATAAAC 120
CCAAATCAAA GATAATTTGG TGCCCATTTT GAATTTGAAG TTAAGTGATA GCTCACTTGT 180
AAAGTGACTA CCTTAATGTG TATAGAGACC CCAGTCTACT ATTATTTGGG AAAATTGTTT 240
AGGTTATATG GGAAAAGTAG CTCTTTAAAA ATCATATTGC CCAACAGAAA CCTTAGGCTG 300
AATTACAGG TATGATAATT TTTGTAATTA ATTTTCTTAG AATTGTGCAG GCTGGGATGG 360
GGATAATGNC ATACTCTTTT AACTGTACC AGCAGCATTT ATTNCCCTNG GACCTTTTAA 420
CCNTTTTAGG GGTTAGGGTN CTNNGGGAAC CAACCTTAAT TNGGNCATCC TCCATTTNNC 480
TTNTNTNCCN NNNNCCNNT TTTTTTTTTG GNCCCCNTTN GGNCCCCTTA AACNACCN 538

```

## (2) INFORMATION FOR SEQ ID NO: 865:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 533  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00988

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 865:

```
GATCAAACT ATANGTGGCT ATGGCGGATA TGATTATACT GGGTATAACT ATGGGAACTA 60
TGGATATGGA CAGGGATATG CAGACTACAG TGGCCAACAG AGCACTTATG GCAAGGCATC 120
TCGAGGGGGT GGCAATCACC AAAACAATTC CCAGCCTTTC CACATTGGCT TTCCCATGTA 180
GTCCTTAGTG TGTCTGCTNC TCCTCTCTCT CCTCATCACA GTTCCCAGCC CCCACCTTCA 240
ACTGAACTCA ACAAATCTT CAACCTTCATA CAGTAGTCAC ATTGTTAGTA ATAACACTGG 300
GCATTTTTAT TTTGATANAN TAGACCGTTT AAATTTTGA GATTCTACCT TATATTTTTT 360
GAATTATATA CTAAAGCANA TAAGTAGGTG NTGTAATGTC CATTGGGGNC CAAGNTTTTT 420
AGGTGTAAAT GGNAAAAGGG TANCAAATTT NAANCTCAAG TAAACACCCT GTAGGCTTTC 480
CCCATGGNTT GGGGNATNTC CGGATTAAGG NCAGGGTTTT CCNTTTTCTN AAA 533
```

(2) INFORMATION FOR SEQ ID NO: 866:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 532  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00989

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 866:

```
GATCTGAAGT GGTGGATTCC TTGTTTTTGC TAGTATCTCA TTTAGAGTTG AGATGGACCT 60
TAAACTCAT CTGTTTTAAC TCACTTTTTA ATAGATGAGT TAAACTTAAT TTAATAAGG 120
ANNNNCAGTT AGAGCCTGGA ACTTCAACCA TTATTCACTC CCCATGCCCT GTTTCCCCC 180
ACTTCGAAAT TAAATGCGGT TAGCATCATA TAGTTCATTT TCCCCCTCCA TGCTGCTGTG 240
TGATTCTTGA CCTTGGGTAT GAGTTTTTCA TCCTTCATGC AGGGTTCTGT CAGTTCATGG 300
TATAGTGATT CAGTGTTAAA ATGGTGGTGT CTCAGCTGTG CTGTGCACAT TTCCAACCTT 360
GTCAAATTAA TAGTCCTGAG CAAGCAAGAA AAAGAGGTAA TAACATACCC ATTTTCTTTT 420
ATGGANTATA AGCTTAATAA TATTTTTTTC NATGNGCCTA TTTTTTACCT GNGCAAATN 480
GTATGGNCTC ACATGGTTAA CCCCAATNAA TTANTCTTGG NCAATTTTAA AA 532
```

(2) INFORMATION FOR SEQ ID NO: 867:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 528  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00990

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 867:

```
GATCGCAAAT NCACCTAAAC AATACATTTA CAAAGCCATC TTTACATGCA TTAAACGAGG 60
GCTACAACAA TATTGTTTTA CAAATACTAG CACTTTTTTC CTGTTATGTA CTTAGTGTTA 120
```

```

GAGGGTCAAA ATAATCTTTC TGCTTAGCAT CTCTTAAACC ATACCTGCAA ATATAGCAGG 180
ATTNTTACAT TTACAGTACT TTAATACTTG TATAANCTAT GCAGAAATTT TTAATAAAGT 240
GTAATATATT TNATAAGCTA ATAAGACTGA ATGGGTAAAG GTTTTNGCA TCGGTTAGTA 300
TACTTGCAGA TACTGAAACA TTTTGGTAAT CTTTCTTACT AAAGGATGTG AATGTTAAT 360
GTACCTTCTC TGTTTCTACT CTGTAGTCCA ATGGGAATTC AGTAATGNCA TTTGNCATG 420
TCAACCTGGG GACCATAAAN TTGGTCTGG TCCAGGCCCT CATNTCCTAT ATCCAGTATG 480
CAATNTTATN TNNTNTNCCT GGTNAATNAA CCCCTCCGGG NTTTTAAA 528

```

## (2) INFORMATION FOR SEQ ID NO: 868:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 526
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00991

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 868:

```

GATCTTTCCT CAGTATGTGC TGATGTTTGG GTTGCTTG TG GAATCACAGA CACTCCTAGA 60
GGAGAATGCT GTTCAAGGAA CAGAACGTAC TCTTGGATTA AATATAGCAC CTTTNATTAA 120
CCAGTTTCAG GTACCTATAC GTGTATTTTT GGACCTATCC TCATTGCCCT GTATACCTTT 180
AAGCAAGCCA GTGGAACCTCT TAAGACTAGA TTTAATGACT CCGTATTTGA ACACCTCTAA 240
CAGAGANGTA AAGGTATACG TTTGTAAATC TGGAAGACTG ACTGCTATTC CATTTNGGTA 300
TCATATGTAC CTTGATGAAG GGGATTAGGT TGGATACTTC ANGTGAGGCC TCCCNCCTGGA 360
AACAAGCTGC AGTTGTTTTA GNTANTCCCA TCCNGGTTGA NATTTGGNGN GGNCCCTGNN 420
CCTAGCATTN CGCATCACNA AGGCAATGTC NGCNTCACAG TTANGGCATT GNGGGGCCGT 480
TTTNCATGN GNACTGGGTT ATTGGGGNCT NACCAGGTCC AANTTN 526

```

## (2) INFORMATION FOR SEQ ID NO: 869:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 526
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS00992

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 869:

```

GATCCTGTTG CTTCTGCAGG CCATTTTCTG AAAACCCCTG TTAGGAAGGT TGGATTTGGC 60
GTGACTTGCT TGAGCAAGAG TCCTGGGGAG AGATTTTNAG GTTTAATTTA ACGGTATATC 120
CAGAGCTAAC AGTGACTCAA CTCGTCTAGT TCTGCAAGTC AGATGTACAC TTAGAGTCTC 180
TCTGTGAAGG GTTTGGGTCT GAGCTGTATA GTATGTCAA CTGCCAGTAA GCCAGCCCCT 240
CACCNCTGA TAGATATTCC TTTAATGCAC CAGACTTCAT GTTTGATAAA TGATTAATGG 300
TTGAAATTGT TTCTCTTCTT TTGTGTTTTT CCAGTTAATA GATGGTCACT GTTTCACAA 360
TGTTTTATAC TTTCCAGCTT TTNGTAACTN AACCTATAAT TACTTNAATT TTAATTTTTT 420
TTAAAGCTTN GTTGGTGGNC CTAATGNAA GGTNTTTTTT CAGTGCATNA ATGGTTTTTT 480
NTGGNGCTTC TGNNAATGN CCNTCCCAAT TGTGGGTTGG GTTTTN 526

```

## (2) INFORMATION FOR SEQ ID NO: 870:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 520
- (B) TYPE: nucleic acid

(C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00993  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 870:

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| GATCAGGACG | GCTGGATTCA | GGTGTCTGAC | GAACAGTACC | TGTCCATGGT | CTTCAGTATC | 60  |
| GTATGACCCT | GGCCTCTCGT | GAAGAGCAGC | ACAACATGGA | AAGAGCCAAA | ATGTCACAGT | 120 |
| TCCTATCTGT | GAGGGAATGG | AGCACAGGTG | CAGTTAGATG | CTGTTCTTCC | TTTAGATTTT | 180 |
| GTCACGTGGG | GACCCAGCTG | TACATATGTG | GATAAGCTGA | TTAATGGTTT | TGCAACTGTA | 240 |
| ATAGTAGCTG | TATCGTTCTA | ATGCAGACAT | TGGATTTGGT | GACTGTCTCA | TTGTGCCATG | 300 |
| AGGTAAATGT | AATGTTTCAG | GCATTCTGCT | TGCAAAAAAA | TCTATCATGT | GCTTTTCTAG | 360 |
| ATGTCTCTGG | CTCTATAGTG | CAAATGCTTT | TATTAGCCAA | TAGGAATNTT | AAAATACCAT | 420 |
| GGACCTTACA | CAAAAGGCTT | TCATGNCCTT | ACTTTNTNAA | AAGGGGTTAT | TGTATTCATT | 480 |
| GGATATGTGC | CGTAGCAATN | NNGGGNTGTT | AGCGGNTAAA |            |            | 520 |

## (2) INFORMATION FOR SEQ ID NO: 871:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 517  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00994  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 871:

|            |            |            |            |            |             |     |
|------------|------------|------------|------------|------------|-------------|-----|
| GATCTCCGTG | GCTTTGGGTT | AAAAGACACA | CTTGTCACCA | TAGGTTTAGA | GATAAGAGTT  | 60  |
| GGCTGGTCAA | CTTGAGCATG | TTACTGACAG | AGGGGGTATT | GGGGTTATTT | TCTGGTAGGA  | 120 |
| ATAGCATGTC | ACTAAAGCAG | GCCTTTTGAT | ATTAAATTTT | TNAAAAAGCA | AAATTATAGA  | 180 |
| AGTTTAGATT | TTAATCAAAT | TTGTAGGGTT | TCTAGGTAAT | TTTTACAGAN | TTGCTTGTTT  | 240 |
| GCTTCAACTG | TCTCCTACCT | CTGCTCTTGG | AGGAGATGGG | NACAGGGCTG | GAGTCAAAAAC | 300 |
| ACTTGNANTT | TTGTATCTTG | ATGTCTTTGT | TAAGACTGCT | GAAGATTTAT | TTTTTTCCNN  | 360 |
| TTATAATANG | GGGNTAANCC | CCACCTTNAT | TCCTTCAATT | CANCCTACCA | TTTTCNNGGG  | 420 |
| TTCTTNGTGT | TGGGCTTGTG | GCAGGNCCAG | CTTNTGGGTT | TTCTTTTTTN | CCATGCCAAN  | 480 |
| NTTNTNAATT | NCCCATGTAC | CAGTTTGNTN | CAAAGGN    |            |             | 517 |

## (2) INFORMATION FOR SEQ ID NO: 872:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 517  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS00995  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 872:

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| GATCAGAAAT | ACAGATTTTG | ATAGCAAAGC | GACGTTAGNT | NGANGCTCTT | GTGAGGAAAG | 60  |
| TCATTGGCTT | TATCCTCTTT | AGAGTTAGAC | TGTTGGGGTG | GGTATAAAAG | ATGGGGTCTG | 120 |
| TAAAATCTTT | CTTTCTTAGA | AATTTATTTT | CTAGTTCTGT | AGAAATGGTT | GTATTAGATG | 180 |
| TTCTCTATCA | TTTAATAATA | TACTTGTTGA | CTAAAAGATA | TAAGTNCTGT | ATAAANNCNN | 240 |
| CCAATTATGT | TAACTAGCA  | TATCTGCCTT | TATTGTGTTT | GTCATTAGCC | TGAGTAGAAA | 300 |

```

GGCCTTTAAA ATTTTTTTAG AAAGCATTTG AATGCATTTT GTTTGGTATT GTATTTATTC 360
AATAAAGTAT TTAATTAGTG CTAAGTGTGA ACTGGACCCT GTTGCTAAGC CCCAGCAAGC 420
AATCCTAGGT AGGGTTTAAT CCCCAGTAAA ATTGCCATAT TGCACATGGT CTTAATGGAN 480
GTTTGAATCT TAAATAAATT GGATATTCAC TTTTAAA 517

```

## (2) INFORMATION FOR SEQ ID NO: 873:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 515
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00996

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 873:

```

GATCTGCGAA AGACCAACTT TTAGGCAGTG ATACTTTTCT CCCATTCCCT GGGGTGGGGG 60
GAGTATGCAG TTGGTGCTTT CTGTAATTCC CTTGTNCTGT TTTGTTTCTG TAAGCTTTTC 120
CCCTGGTGTC ATGGAAAGGA CTTCTTAAAT AACCACATTG TGGGTGGCTG TATCCAAAAGT 180
TTAAATAATT GGCCAGAAGT GCAGAGTATC CTTTCCTGGA TTCGTGTCAG AAAAGGGCTC 240
CTTGCCACAA CTGAACCTAC TGTATAAAAA CCTGGCTAGG GAGATTTAAT TTTACTAAAA 300
TTACAGTTTA ATGTTACCGT CTAGCCACAA ATCAAGCAGC AAAAGCTATT TTGATGATGA 360
AAGGGGGTCC CGTTGAGCTG GCCATCTAGT GCAGTGTGCT CTCAGATNCC ATGTTTGTG 420
ATTGTGTGCT TCACAAGNCC NTCTCTGGTG CTTGAATTGG ATTTGAATTC TTGGTNAGAA 480
GNCTCAGCAT CTCCTTGGGG TNGGCTTGGG CCAA 515

```

## (2) INFORMATION FOR SEQ ID NO: 874:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 514
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00997

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 874:

```

GATCAGNNAA TNAAGTGCAG CAATATCATG AATTCTCAGA AGCCCTTTCA GGGAGCCAGT 60
NAGTCATACA GTATCCACAG TTGAGTCACT TAAAGATGTC AGTATACGAA ACATTATTCA 120
CAATCCTTGG GCAATCTCAT TTTTTTTTCC TTCTCCCCTC CTCCCCTGCC CCCCATACAT 180
TTNTATCCTT GAGTTAGTTT TGGNGGGGCA GGAAGTACTT AACATCTCAG AAGCTAGATT 240
GGGAAACATG CTCAGCTATA AGAACTGAGC TTAAATTTT GAGTTTAAAA ATGTACATCA 300
GGAGCAGNTG GGGAGGGTCT TTTTTTTNAA AAAAATCTTT CCAATTTTGG GTTTTCTNTG 360
CCATATGGCC GTTTTGTAAT TNCTTTNGGG GTTTTNNATT NTTTTNGAAA GTGGNTGAAA 420
TCTTGTTNTG GGNTTTTTTT CCCCAGAAAC TTTNNAATAT AACCCNGTTT ATTTTNNAT 480
GNAAATTAAT CCTTNTTTGG GTAAAAAGGT TAA 514

```

## (2) INFORMATION FOR SEQ ID NO: 875:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 513
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00998

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 875:

```
GATCTTCTAT TAAANTGATT CCTCTTTATT AGAGAAGGAA AATTTAGTTG CTATACATCT 60
TATATTTNCA CAGTTTATTA AAGTCAGTNC CCTAAAGGTA CCTNCTTTNC TTTGTGGCAT 120
ATATGGCATC TNCTGTCTTC AGATTTNCTT ACACTTTTGT GATTTATAAT GTTAGTGATT 180
GGTGCCTTAT TCTCTGAGGA AAGATGGAGG GTTCATAAAG CAATGCCTTA TCCACAGCAG 240
ATTTNCTTGT ATATTAAGTT AAACAGAATT CTGTAAATTA TTATGAAGGG TTCAAGCTCT 300
TTAGGGGGAG TTTTTTTTTT TTGTTGGTTA ACAAATTGGT TGCAATCTNT TATATTTCGC 360
AATTGGNTTA GATATTACAG TCTACTTATT TTTNCANGNG TAAATTAATT GTNTAAGGTT 420
TGGGTTNGGT ATAAATGGNT AAAATATTAA TATNGTGGGG GGTAAATTT GATTNGNGT 480
TTTTTTTTTT NAAGGCCNNN GGNTTTANGG AAN 513
```

(2) INFORMATION FOR SEQ ID NO: 876:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 510  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS00999

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 876:

```
GATCAGTATG AGANGCAATA CCTAATCCTA TGTTGCTATT GTATTTTNC CTAGTTGGTG 60
TGCCTGCTCA GAAAAACATA TACTGTATGT GTATACATAC CTGTGTATAT ATAAAAGGTC 120
AATTTATATA TNTNCCTATA GGAAAATGGA GTAACAAGTT CCCTATCTCC CATATTTATT 180
TGTCATAGT AAAATGGCCA CATTGATGAT AATTTCTAGA ACTAGTTTCT GAGATTGTCA 240
GCCCTTTGTC TAAAATAATG GCAGTATTAA TGATTGACTT CTGTCACTGC CATAGTTACC 300
TGGATTGTCA GCCTNGGTAG CCTTTGTCTA AAGTCCTAAA GAGTTCCAAA AAAAATGTGT 360
TGAAATAATT GCTAAATAGT GGTGGGTGAT TCTTNCAGTA GGNATTTGTA ATAATTCNT 420
GGCAAANAAG GTTATTNCCT GCTATTGGTA TTGGATNATT NGNCTTNTAT NCNGGTATTT 480
TNNAAGGC AGGNTTATAN GGNTNNCCN 510
```

(2) INFORMATION FOR SEQ ID NO: 877:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 504  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01000

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 877:

```
GATCTTCCAT CCTCAAATGA CTCTTTTTTC TTTATATGTT AACATATATA AAATGGCAAC 60
TGATAGTCAA TTTTGATTTT TATTCAGGAA CTATCTGAAA TCTGCTCAGA GCCTATGTGC 120
ATAGATGAAA CTTTTTTTTT AAAAAAGTTA TTTAACAGTA ATCTATTTAC TAATTATAGT 180
ACCTATCTTT AAAGTATAGT ACATTTTACA TATGTAAATG GTATGTTTCA ATAATTTAAG 240
ACCTCTGAAA CANTCTACAT ATACTTATTA CCCAGTACAG TTTTTTTCCC CCTGAAAAGC 300
TGTGTATAAN ATTTATGGTG GATAACCTTT TATGGTTTCC CTTTCAAAG GCCCAGGGTG 360
GGAGGGGGGA TTAAGGGGGC CTAAGGTNTA TGCCTCCNNG GTTTTAAANT TAAATNCCCT 420
CNNGGTATTT AAATTANNTT TTNCCNANGG TTTNTNGGGG GANTGGGGGG GTTTANANTT 480
```

GCCTTNTTTN GGGGTTTGGG GAAA

504

## (2) INFORMATION FOR SEQ ID NO: 878:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 500
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01001

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 878:

```

GATCTGGGCT CTGAGCACAA GTCAGGAAAC ACCAACATAT TCACACTCTC CCAGTAGGTT 60
CCTCAGTCCG ATGGTGAATG GCTATTTCGTA AATGGCTGGT CTGGCTCTTT GGTGTTGGAG 120
CCTTTCCAAT AGCCCCATGA AAAGAAGCAT CACCCAAGGA TATTGTAAAA AGGATGTAAC 180
AAGGAGATAG GGTAGACATT GTACTCAGTG GGCCTTGGGG CCTAGCCCAG CTCTGAGCAG 240
AGGACTGTGG CATTCACTGT CCTTGAGTGT TTCACCTTCT TGGATAACAC ACGGCGCTTC 300
TCTTCTGGAT TTCATCAGAG ATTACAGCCA GATGGGGGCT GAAGACCATC CTCTTTGACC 360
ACAGAGGGTG TGA CTGTGGG GAATTCCTCC CAATTTATGG TTTCCNAGGA AAATCTTAGT 420
TCCTTTTATT TATAGGAATG CATGNCNTTT TGGTGTTAAG GAAACCCAAG GGNANTTAA 480
NGGGACCANT CCTANTNAAA 500

```

## (2) INFORMATION FOR SEQ ID NO: 879:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 500
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01002

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 879:

```

GATCTCCAGC CTCCCAGAAG CCTGCTGTGC TTTCGTCCCA CAGCTTTCTG CCCATTGTTT 60
CTTACTAGTT TCTTGAATTG TNCTTGTTGA CTTTNCCTCA GGGATACATT GGCCTGCAGG 120
TCCCAGTTCA CATGTAGTCC CCTGCTCACC ATTGGAGAAT CAGCTCACTG CTCTCTAGAA 180
ACGTGGCGTT GGTGAACGGA CCATGCTTCC GTAGCTCTGA CCTGGGCAGC TTGGACCTGG 240
TCATCCTCTA CTGCCATACC TTTCCCTGGG GGCTTGAACA CAGAACAGGG AGATGGACAA 300
CCACTTCAAA GAAAGACCCA CCGAATGCAG TTTCTGCTTG ANTGACTGGG NCTGCAGTTC 360
CNTTNTCCTG GGA CTTAGAG GTGGNCAGAT NTANGGCCCC TTTACTCATC CANCTTNGTN 420
TTCAACTGGN ACTNCCNAAT NANTNAAAGA GCCTNAAATT TTAAACTNGN TGTGGATNGG 480
GNATATGGGA NTAGGGTTGN 500

```

## (2) INFORMATION FOR SEQ ID NO: 880:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 500
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01003

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 880:

```

GATCGTCAGC AAGTACTGTA NCTGTAAAGG AAAATCTCTC TCTCTGGAGA ACCCACACAA 60
ACCATTGACC TGAGTGCACA TGACAGCCAC TGGNNATNTT TTCTATGATT GAAAATCTGC 120
CATCGCTGAC TGTTGGCCAG TTTCAAAGGG ACCCATTGTA TACAGGGTGC AAATGTATTA 180
TACGGATGTT TCCTTTTGTA CACTTCATTT TTACAAGTTT TGCTACTCAC AAGCTTTATG 240
TAGTGGAGGA TAGAGGTATT TTTGGTCTTT AGAAGCTTGT CGGGGTGAGG GCTGCTAACT 300
TACACTTCAG AGGCCTGTGT CCCAAAGGCC TGGCTGCGTT TGCCGTGCTG TGCGAGGACC 360
TGTGTACACA GGCAGGTGTT CGCCTGCCCC AGCGCGAGTA GCTCTTTGTG TAGTNGGTGA 420
AAATGCTTGC AGGCATCTGT TTAATTAAAA ATTNCCTGCT GTTAAAGNCA GGGGTAAAA 480
ATNTCCACAA TTTANGGAAA
500

```

## (2) INFORMATION FOR SEQ ID NO: 881:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 498
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

```

(B) CLONE: HUMGS01004

```

## (ix) FEATURE:

```

(D) OTHER INFORMATION: "N"=unidentified base

```

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 881:

```

GATCAGGATT CAGANGTGGA CATCTTCCCC GCAGACTNCC CTACTGAGCC ACCTAGCACT 60
GCCACGAACC GGTCTGGGCTA GGAAAGAAGT AAAATATTTT GCAGAGTCTG ATGAAGAAGA 120
AGATGATGTT GATTTTGCAA TGNNTAATT AAGTGCCCAA AGAGCACAAA CATTTTTCAA 180
CAAATATCTT GTGTTGTCCT TTTGTCTTCT CTGTCTCAGA CTTTGTACA TCTGGCTTAT 240
TTTAATGTGA TGATGTAATT GACGGTTTTT TATTATTGTG GTAGGGCCTT TTAACATTTT 300
GTTCTTACAC ATACAGTTTT ATGCTCTTTT TTTACTCATT GAAAATGTCA CGTACTGTCT 360
GATTTGGCTT NGTAGGAATT GTTTATAGGN CTGCCCCGTC ATTAGGCACA GGATTTTAA 420
ATTGTCCATG GGTTNCCANC CTACCAGACC CTGCTTTTTT NGNNAATNGG AATTTTNAAC 480
CATTNANAAA TNGGGAAA
498

```

## (2) INFORMATION FOR SEQ ID NO: 882:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 494
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

```

(B) CLONE: HUMGS01005

```

## (ix) FEATURE:

```

(D) OTHER INFORMATION: "N"=unidentified base

```

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 882:

```

GATCTTACTC CACGNATACT TTTTGGTNTG TGAAGGCATC GGTTAAGGGC ACAAAGACAG 60
CCATGGGGAC ATTTATGTAA ATACGTCTCT AATTGCCACA CTGCAGCTGA ACAGTGTGTA 120
GTATTTTCCC AGTCAGCTTT GCCATACTGA CGTCAATCAT TTGAGAGAAA TTATTCAGAT 180
TTNATTTTTG TATCTGTGGT AACAAAACAT TAACCAAAAG ATTTTNTGTC CAGAAGCCTC 240
CCCGNCCCCC CAAGCTATTT GCTCACATTA ACANATTAAA GTGCCTGAAG CATAATTCAT 300
TCTTTACCTG TATACTAAAA ACCCTGTTGT ATTGGTTTTT TTTNTAATAA GCCTTTTAC 360
CTCTGTGTAA ANANATATAT ATACCAGGTG TATGATGGTN CATTTTGGGT CTTNANCTTT 420
TTTTTAATGG TTTCTAATNT GTNTGNCCNA ATGTTGGCNT TGNTTTTANA NTTGTNCCGG 480
GGTNNATTTT TANN
494

```

## (2) INFORMATION FOR SEQ ID NO: 883:



- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 493
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS01006
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 883:

```

GATCTTGATG CTGTGGAAGT AGTTTGAGGA ACATCCTATG AGTTTNCTTA GAATGTATAA 60
AGGTTGTAGC CCATCCAAC TCAAAGAAAA AAATGACCAC ATACTTTGCA ATCAGGCTGA 120
AATGTGGCAT GCTTTTCTAA TTCCAAC TTT ATAACTAGC AAAAAAGTGT TTGCTTATTC 180
CACCAGTTCT ACTGTGACAT ACTCGAGTAT AAAGACATGT AGCAATAACG GGGAGTGGGG 240
GGGGAGTCTC ACAGTGCCTT TGGAAGGGCC CGAAGTTGCC TTAAATCTTC CTCAACCAAA 300
TAAGTATTTT ATTAGTGCTT GAGAGAATCT GGAATGTAGG NTGGGTTCAA CTGCACAAAN 360
GGAAAANGNT TTTTACCACT NTTTTTATAT AGNTATAAAG TGNAGCAACC GCCTTAGTGC 420
CTGAATATGT AGTCCATGAN TATGCCTTGT NTAATTTCCA GAAATTCCAN ACCTTGTA 480
GTTTTTTTTT CCN
 493

```

(2) INFORMATION FOR SEQ ID NO: 884:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 492
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS01007
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 884:

```

GATCAGCACT GCCAGTGGAG ATGGGCGTCA CTACTGCTAC CCTCATTTCA CCTGCGCTGT 60
GGACACTGAG AACATCCGCC GTGTGTTCAA CGACTGCCGT GACATCATTC AGCGCATGCA 120
CCNNGTCTAG TACGAGCTGN NCTAAGAAGG GAACCCCAA ATTTANTTAA AGCCTTAAGC 180
ACAATTAATT AAAAGTGAAA CGTAATTGTA CAAGCAGTTA ATCACCACCA ATAGGGCATG 240
ATTAACAANG CAACCTTTCC CTTCCCCCGA GTGATTTTGC GAAACCCNCT TTTTCCCTTC 300
AGCTTGCTTA GGATGTTCCA ATTTTAGGAA AGCTTAAGGC GGCCTACAGA AAAGGGANAA 360
ANGGGCCACA AAAGTTTCCT TTTAACTTTT NAGTAAAAAT TAANTTAAAN CAGCAGCAGC 420
AACCANTTTA AATTGGATTT AANGGGTCCN AATTGGAATT NAATTTTTTG GNTTNNNNCG 480
GGNTTTNAAA AN
 492

```

(2) INFORMATION FOR SEQ ID NO: 885:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 490
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS01009
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 885:

```

GATCGAGTTT NATGCATCAC AGTTAACATG TCAGCTGGCC CTCCAGGCCC CCGCCCCCAT 60
CCCGTCCACG TTGCTGTGTC GTGAGGTGCA GCGGGTCACC CTGTGGCCCG TCCTGTGACC 120

```

```

CATATTTAGC CGTGTGTTGGG ACTCCGTGTC TTCAATGGTT TGTTAGTTGC CATTACAACT 180
TTGTCTGGGT AGAGTTTTTG AGTTTTTNCA GTTCAGTATC CCTCTGTCTA TTCACACTTC 240
GTGTTAGTGG TAACTCAGTT TGTCTTTAAA TAGTTACAGA AGGGATACGT CATTTGTNAA 300
TGCTTTTGTG AAGTGAGTTA AACGAGCTTT CTGTATTTTA ATGCTTTAGT GTTTCAGTTT 360
TATAAGTGAA GATTTTATTT TAAAAACCAG TGGGAAAGAG TGGGGGGTTT CTTTTTATGT 420
CTGGGTCATT CAGGCAGTAC ATCTGNTTTA AAGCTGAATG TAGGACANTT AATGAAATCC 480
ANATCTGAAA 490

```

## (2) INFORMATION FOR SEQ ID NO: 886:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 487
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01010

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 886:

```

GATCAGCTAT ATACTATTTA TATACAAGTN ATAATACAGA TTTGTAACAT TAGTTTTTAAA 60
AAGGGAAAGT TTTGTCCTGT ATATTTNNTT ACCTTTTACA GAATAAAAGA NTTACATATG 120
AAAAACCCCTC TAANCCATGG CACTTGATGT GATGTGGCAG GAGGGCAGTG GTGGAGCTGG 180
ACCTGCCTGC TGCAGTCACG TGTAACAGG ATTATTATTA GTGTTTTATG CATGTAATGG 240
ACTATGCACA CTTTTAATTT TGTCAGATTC ACACATGCCA CTATGAGCTT TCAGACTCCA 300
GCTGTGAAGA GACTCTGTTT GCTTGTGTTT GTTTGTTTGC AGTCTCTCTC TGCCATGGCC 360
TTGGCAGGCT GCTGGAAGGC AGCTTGTGGN NGGCCGTTGG NTCCGNCCAC TCANTNCTTC 420
TGGNGCACTG GTTTNTNCTT TANAGTTANG GTNCCATGNN NCAAGGGGGG TTCCNANGNG 480
GAGGNCN 487

```

## (2) INFORMATION FOR SEQ ID NO: 887:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 485
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01011

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 887:

```

GATCGCAAAT AACTAAATG TGGAGTGTAG GAACCAAAT GAAACCTGCT GTATGGAAAC 60
TACTTTCACT TATGGTTCAT TGGTTTTTGT ACCAATATTT TTTATGCACT TCAGTGCAAG 120
TNTTGTCACT TAACCTTACT TTATGAGTAA GCTAAATAAC CCAAATTACA TTTNTTTAAA 180
CCTGTTTTAC TACTATGGCA CTTTGATAAA ATGGTCAGGA ACCAACTTTA CTGGCAAAAG 240
GGTCCATGTA CCACCATGTG CTGGAGCATC TGTTCTACAT GTGGATATCT ATGANTGGTA 300
ATGTTTTTCT TCATGTAAGT GCCTATTCAG AGTTTCAGAA TTTTAAAATG CCAAATATTT 360
TCATGGGTCA TTTGCATGTA GTAAGCCAGA AAATATTCAA NGGGATTTTG GAAAACCAAT 420
TGGTATTTAA CCAGCCTCAA ATTGTGCAAC CATGGTTGTA TAATAANGGA TTTGGAACCC 480
GGAAA 485

```

## (2) INFORMATION FOR SEQ ID NO: 888:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 485
- (B) TYPE: nucleic acid

(C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01012  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"-unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 888:

```

GATCTAATGN CATATTCCAA AAGCTCAACA GCAACACCCA GGTAGTTTTG CTGTCAGCCA 60
CAATGCCTTC TGATGTGCTT GAGGTGACCA AGAAGTTCAT GAGGGACCCC ATTCGGATTTC 120
TTGTCAAGAA GGAAGAGTTG ACCCTGGAGG GTATCCGCCA GTTCTACATC AACGTGGAAC 180
GAGAGGAGTG GAAGCTGGAC AACTATGTN ACTTGATGA AACCTGACC ATCACCAGG 240
CAGTCATCTT CATCAACACC CGGAGGNAGG TGGACTGGCT CACCGAGAAG ATGCATGCTC 300
GAGATTTTAC TGTATCCGCC ATGCATGGAG ATATGGACCA AANGGAACGA GACGTGATTN 360
TNTGGNANTT TCGTTCTNGC TCTAGCAGAG TTTTGATTTC CANTGACCTT TTGGNCAGAG 420
GAATTNTTGT TTNNGAAGGT TTTTTTTTAG TCATCANNCT NTTGTCCTTT CAACTATCAG 480
GGGTN 485

```

(2) INFORMATION FOR SEQ ID NO: 889:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 492  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01013  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"-unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 889:

```

GATCGCAACG CCAAAGGTGA AGAACCANCT CAAGGAGACC ACTGAGGCAG CCTGCAGATA 60
CGGAGCCTTT GGCCTGCCCA TNACCGTGGC CCATGTGGAT GGCCAAACCC ACATGTAATT 120
TGGNTCTAAC CGGATGGAGC TGCTGGCGCA CCTNCTGGNA GANAAGTGA TGGNCCCTAT 180
ACCTCCAGCC GTGAATGCNA GATTTTAAGA TTGCCCCGAG GAAGCAAACCT TTTCGTATAA 240
AAAAAGCAGG CCATCTGCTT AACNNTTGGN TCCACCATAA GGCACTGGGA CTNGGATTTT 300
TNTATCTGAT AGAGGTATTT NTTGTGGCCC TGGGAGCTGT CTGNTTTTCC CCTACCCCCA 360
AGGNTGCCAG GAAGACGTCC ACCATTAGCC ATGTGGNAAC CTTTACTTCT ATGCTTACAA 420
GTGCCTTTNA GNGAGCCCCA ATTCTGGTTT TNCCACAAAA TAAACCTAAT GCNNTCAGGG 480
AAAACNNTTA AA 492

```

(2) INFORMATION FOR SEQ ID NO: 890:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 478  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01015  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"-unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 890:

```

GATCTTGCTT CCAGGCAGCA GCTTGAATTC CCGAATCTNC CTGCAAGCNG CATACAAATG 60
CAGCGTGAGA ATCCATACAC GTAATCCATA TTCACCTTCC CATCCATCCC GCAGAAGAGG 120
CATGGTGACA CCCAGGCTAC TGTCCATGCT TGAGAGGACG TATTTGAAGG TTCTGTTACT 180
ACAAGTTGGG AATATTCACG GGCCATGCCT GAATACCCGG NCTGTANCTC ACACNGTGGT 240
CTGTGTAAGG GGNTACCCTN GGGGCGGCCT GGTTTAATCN TGATTAATAT CTGAAAGCNT 300

```

GGGTTNNNTG GGGAATGTNA GGGTTTTCCT AATGCCATTA AATTTTTTTT TAGGCNGTAA 360  
 AAATTAAAT NCATTTTNTT ATCCAGCAGG CCTCTTTTAT ACCTTTATNG GGGAATCTNC 420  
 CATACTTACT TTCCGGCCAN NTTTTCAATA ATNAAATTTA TTTTGGAAN TTTTAAA 478

(2) INFORMATION FOR SEQ ID NO: 891:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 474
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01016

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 891:

GATCTTACAC TCTGCTTTTG TCCAAATAAA ATGCAATAGT ATCAATATCA ATTCAGAAA 60  
 AATGGACTGA ATATGCTTTT TTGGTGATGA AATCTCATGT ACGATATTTA TAGTGATGTG 120  
 CTTTTATTTN CTCATGAGAT ACTAAATATT AATTGTGTTG TACATTTGTN CTTAGCATAT 180  
 ATTAAAGTTT TGAACCAAAT GTGTAAAGC TTACGCTTTG CCATGTAAAT TTCCAGAAAG 240  
 TTGTTGAGCT CAAATGTATC CTACATCCAG CTGTAGAAAT TTGTCAGAAA TTGTTTAAAT 300  
 TTTGTATATA ATTGTACTGT TTAATTCTAG CCATTGCGCT GAACAGTATT TGAGTTACCA 360  
 TATAATATGG CTTTACACAA NGGNAATGTG TGGCTTTTGT TTTGGTATTT TTTCCAGTAT 420  
 AGGAAGTTCC CTGTGGCCTT ATTTAAATA AAGGTTATTA GGTAAACTG GAAA 474

(2) INFORMATION FOR SEQ ID NO: 892:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 473
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01017

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 892:

GATCACAGCT CACTGCAGGT TCAGCCTTCT GAGTTCAAGC AATCCTTCTG TCTCAGTCTC 60  
 CTCAGTAGCT GGGGCTTTAG GTGGGCACTG CCACACCGTA CTAATTTTNG TATTTTTTGT 120  
 AGAGACGAGG TCCCACCATG TTGCCAGGC TGGTGTCAA CTCCTGGGCT CAGTCAGTCC 180  
 CCCCATCTCA CCCTCCCCAA GTGCTGGAAT TACAGGCGTG ANTTACTGTG CCCAGCCTTA 240  
 CGGACATCCT TTTGAATTAT CTTTTTCACT CATAGAATAT GAATACATTT ATTTAGACTT 300  
 TTTCTAGAAC TTTCTGTTT TCATGTCTTT GNTTCACCTG GAATTGGGTT TAACACCCTT 360  
 TTATAAAGTT TGTGGTTTGN AAAATTTCCA TTGGGGCCAT CAATACGGAA ATATATTTGG 420  
 TAANATTNGG GGGTTCNATT TTTTAATTAA AATGGCAAAT GANNGGCAGG AAA 473

(2) INFORMATION FOR SEQ ID NO: 893:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 473
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01018

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 893:

```

GATCGGGTTG AGGATTGGGG CTAGCTCGAT NACANTAAGG CCCCACATC GNGGGACCTG 60
CTGTGGCGCG GATTCTTAGG AACGCTGTTC TAGCCGGCCC CCTCTCCAGG GGTCGCCGTG 120
GCCGGCATTG TTTCCTAGTT CTTCTTGTA CCCTGAGGTG CCAGCGCGGG GAGTGAGGAG 180
GGGTCAGGGG GCTAAGGATG CAACCTCTGA CGTTCTGCGC CTTCTAGGA GAGTCTTACA 240
TGTNTTGAGA TTTCACAAGC AATGCGAGTT GTAAATACC AGCTCTACAN GAAGCTAGGC 300
TCTGTGACGG CATAGTTTTT AGTAGCTNTA TCACAATATT CACAATGGAG AATTATATGA 360
CATGGTAAGC AGAAATAGGC CCCTTTTAAT GNGNTGCTTC TATTTTACCT CANATTGGTG 420
GNTNTAGGNT AATCANTAAA AATCNATCCA NNGCNTTTCA CAACACTNNN AAA 473

```

## (2) INFORMATION FOR SEQ ID NO: 894:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 468
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01019

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 894:

```

GATCAGGGGG CCAGGCCAGC AGCTCGGGGG CCACAAGGAG ATGGATAATG TGCCTGTTTT 60
TTAACACAAC AAAAAAGCCT ACCTCCAAAA TCCCCTTTTT GTTCTTCCTG GACCTGGGCA 120
TTCAGCCTCC TGCTCTTAAC TGAATTGGGA GCCTCTGCCA CTGCCCCGT GTATCCTGGC 180
TCTCAGCTCA TGGGGAAGCC ACATAGACAT CCCTTTCTTC CTTGCACGC TCGCTAGCAG 240
CTGGTAAGGT CTTACACCCC TGATTCCTCA AGTTTTCTGC TTAGTGGCAC TGACATTAAG 300
TAGTGGGGGG ACAGTCCATG CCAGGACACC CTGGAGTAGC CTTCCCCCTT GGCCGTGGGG 360
CAGGNCCTAA CTCACTGTCT CTTTGGAGTT GAGGGTGTCT TTTCTTNTTC TTTCTTTAGT 420
TCCTGTATTG TAAACATTAG TAAAAATAAA TGTTTTTTAC ACAGGAAA 468

```

## (2) INFORMATION FOR SEQ ID NO: 895:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 462
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01020

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 895:

```

GATCCTGCAG GACTACAAAT CCCTCCAGGA TATCATTGCC ATCCTGGGTA TGGATGAACT 60
TTCTGAGGAA GACAAGTTGA CCGTGTCCCG TGCACGGAAA ATACAGCGTT TCTTGTCTCA 120
GCCATTCCAG GTTGCTGAGG TCTTCACAGG TCATATGGGG AAGCTGGTAC CCCTGAAGGA 180
GACCATCAAA GGATTCCAGC AGATTTTGGC AGGTGAATAT GACCATCTCC CAGAACAGGC 240
CTTCTATATG GTGGGACCCA TTGAAGAAGC TGTGGCAAAA GCTGATAAGC TGGCTGAAGA 300
GCATTCATCG TGAGGGGTCT TTGTCCTCTG TACTGTCTCT CTCCTTGCCC CTAACCCAAA 360
AAGCTTCATT TTTCTGTGTA GGCTGCACAA GAGCCTTGAT TTGAAGATAT ATTCTTTCTG 420
ACAGTATTT AAGGGTTTCC AATAAAATGT ACACCNCTCA AA 462

```

## (2) INFORMATION FOR SEQ ID NO: 896:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 462
- (B) TYPE: nucleic acid

(C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01021  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 896:

```

GATCTAAATC CTCATTTATC TCTNCTATGT CTAGTATTTT ACTGTCACTG GAGGCTCTGT 60
GGGCTGTCAT AGTTAATTGA CCATAATTAG CAATATACTT TTAAAGTGGG AAAGCTGAAT 120
GACACTNNTT AAGACAAATGA ACATTATCAA AACAAAATGT ATAATTNCTT AATTTGAATA 180
ATAAATTAGG CGTTTAAATG CTATTTGTAG TCTTGATATA CAGAAATAAA ATAATTAGGG 240
TTGGTCTTTT TTATTTTAGG TTGTTTTATG TTGAATGTTT TATATCTTAT TAGTTAATTN 300
GTATATTTNA TTAGTATTTN GGGAAATAGC ATATCTGAGA CTGAAGGGGA AATTGGCCAA 360
TTCACCTATT TGTGGTTTTT TTCCTCAGCT ATTCTGAGCT TATTTATTAA TTGNATGGCC 420
TAATGGCTAA CCATTTACAT TAAATGGTT TTTTNCCTCA AA 462

```

(2) INFORMATION FOR SEQ ID NO: 897:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 459  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01023  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 897:

```

GATCTNCTCT TTCCTCTCCT TTTCCTCATT TATTCCTAAA GGAATCTGAC CATTAAAACG 60
NCTCTACGGC CCAAAAAAAG ACAAATAAA AAATTCCTTT TTATTCCTGT CAACTGGATG 120
GAAACACAAA TTTCATGGAG CTGTGTACCA TCGAAGAAAC CTGGTGTCTG GCATGAAATT 180
ACTGTAAAGA ACTTCCTGTA AAACACGTTT TTTAACAAAC TGAAATGAAA AGCATTGGAG 240
CGTCTGANTG AAAGACGTGA CCTCCTGCTG GGAATCTGAT GGTCTTCAGC ATTCACCTTC 300
GTGTGTCTTC AGTGTCTCAT TGTCATCCCT NGCTTCTGGN TTGGNCCTTA GGAGTNGTTT 360
GGGATATAAC CTNAAATTGT NGGATGGGTA AANGGGAAT TTNNATGNNG TTTTTTTGGT 420
TTTTTAAAAAT NATTTTNAAA NCGGGGTCAN TTTTTTAAA 459

```

(2) INFORMATION FOR SEQ ID NO: 898:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 457  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01024  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 898:

```

GATCCACCTG AGCGACCTCC GGGAGTACAG GCGCTTTGAG AAGGAGAAGC TCAAGTCCCA 60
GTGGAACAAT GATAATCCCC TTTTCAAGAG CGCCACCACG ACGGTCATGA ACCCCAAGTT 120
TGCTGAGAGT TAGGAGCACT TGGTGAAGAC AAGGCCGTCA GGACCCACCA TGTCTGCCCC 180
ATCACGCGGC CGAGACATGG CTTGCCACAG CTCTTGAGGA TGTCACCAAT TAACCAGAAA 240
TCCAGTTATT TTCCACCCTC AAAATGACAG CCATGGCCGG CCGGGTGCTT CTGGGGGCTC 300
GTCGGGGGGA CAGCTNCACT CTGACTGGCA CAGTCTTTGC ATGGGAGACT TGAGGAGGGG 360
AGGGGNTTNA GGTGTTGAG GTTAAGGTGC GTGTTTCCTG GTGCAAGTCA AGACCATCAG 420

```

TCTTATTAAA AGGTGGGTGC CAATTTTTTTT TACNAAA

457

## (2) INFORMATION FOR SEQ ID NO: 899:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 457
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01025

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 899:

```

GATCCAGTAT CTTCTCGGC TTTTATAGGA GCAGGAAAAA TGCCTCTNAN AGCAACTTTT 60
TTTAAAAACC TGCCCTGTTG TATATAACTG TGTCTGTTTC ACCGNGTGNC CTCCCAAGGG 120
GGTGGGAAC TATATAAAC GTTTAAAGGG GCCACGATTT GCCCGAGGGT TACTCCTTTG 180
CTCTCACCTT GTATGGATGA GGAGATGAAG CCATTTCTTA TCCTGTAGAT GTGAAGCACT 240
TTCAGTTTTT AGCGATGTTG GAATGTAGCA TCAGAAAGCTC GTTCCTTCAC ACTCAGTGGC 300
GTCTGTGCTT GTCCACATGC GGTGGGCGTC TTGGGACCTT GAATGCCTGC CCTGGTTGTG 360
TGGACTCCTT TAATGCCAAT NATTTCTTCA NTTTCTCTTG GGACACCNAG GGNTGCCNGT 420
TNGACAAAGT TTTGGNGAAC NTCCTAATTT AAAATGN 457

```

## (2) INFORMATION FOR SEQ ID NO: 900:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 454
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01026

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 900:

```

GATCCGANGA CCACATCAAT GGGCGCGTGC TCTACTATGC CACCTGCAAG TAATGCTACA 60
GCTTCCAGCC CGTTGCCCCA CTCATCTGCC GCCTTTGCTT TTGGTTGGGG GCAGATTGGG 120
TTGGAATGCT TTCCATCTCC AGGAGACTTT CATGTAGCCT AAAGTACAGC CTGGACCACC 180
CCTGGTGTGT AGCTAGTAAG ATTACCCTGA GCTGCAGCTG AGCCTGAGCC AATGGGACAG 240
TTACACTTGA CAGACAAAGA TGGTGGAGAT TGGCATGCCA TTGAAACTAA GAGCTCTCAA 300
GTCAAGGAAG CTGGGCTGGG CAGTATCCCC CGCCTTTAGT TCTCCACTGG GGAGGAATCC 360
TGGACCAAGC ACAAAAACTT AACAAAAAGT ATGTAAAAANT GAAAAGCCAN ATAAAAATCT 420
TTGGAAAAGA GCCTTGAGG TTCAACGGGG GAAA 454

```

## (2) INFORMATION FOR SEQ ID NO: 901:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 453
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01027

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 901:

```

GATCTTNCTT NTTAAGTGGA TAAGACAGTC CCACAGTCCA GCCTAACTAT GGGACAGCTT 60

```

TACGAGAAGG AAAAAGATGA AGATGGATTC TNATATGTGG CCTACAGCGG AGAGAACACT 120  
 TTTNNAANCT GAGGGCCATT GCTGGGCTAG GTGCACCGTA ACTGCTTGTG TATCTTGTA 180  
 ATAGCCAGCC ATTTNCAGTT ATTATACCAG AACCTCTTCA CATAGACCTA TTAGTGCATT 240  
 TGTAAC TGGN TTTATTTCTT AATATATTGG AAGGTTTGTT TCCTTAGNCT AGTAAATTAT 300  
 CATACAGNGT TTTATTTTGA GGTTTTTCTT NMNTGTGCAT TNTCCTCATG GCCTGTAAAC 360  
 CNCCAGGAAA CCTTTTCCTT CTNGGAAATC ATATTTGAAA TGATAATTCTN TATATCCGAN 420  
 GTGAGGNTAG GNNCCGGGTC CTCCCAATAA ANN 453

## (2) INFORMATION FOR SEQ ID NO: 902:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 452  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01028

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 902:

GATCTTAAGT GAAGAAGGAA GACTTGGCCT TTTGTATTGC TTGAATATTA ACTGTCTTGG 60  
 AAGGAAGTTA TGCTACAAGA AGTCATACTT TCATAAAATT ATTTGCATCT GTGTCAAATG 120  
 CAGTTTAGTC AGAACGTAAG ACATAATAGG TGTGGACATG AACTCTGGAG TGTGAAATAA 180  
 AATCCACAGT TACTTAAGCA GTCTGTTTTG ATGGAAAGTA TCTTGGGATA ATACTTTCCT 240  
 CTGTGGGATT TTGTTTCATTT TAGATGGTGC ANGGNAGTAT CAGTCTTTAA TTTTTTTGTT 300  
 GTTGTTTTTT TCANTCATTT GCTCTGATGG TATGATGCAT GGGCTTCAGG ACTCCAGCTG 360  
 CACCACTGTA TAAAACTCAG TTCAGGTTTN CTAGCGGTCTN TTGGNTAATT TTCGGGGCNT 420  
 ANCCCAGTNC CAATTNTTTT TAATGTGNTA AA 452

## (2) INFORMATION FOR SEQ ID NO: 903:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 448  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01029

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 903:

GATCAGGGAC CCTCCNGCT TTCCTGGGCC TCTNAGTTGA ACAAAGCAGC AAAACAAAGG 60  
 CAGTTTTATA TGAAAGATTA GAAGCCTGGA ATAATCAGGC TTTTNAAATG ATGTAATTCC 120  
 CACTGTAATA GCATAGGGAT TTTGGAAGCA GCTGCTGGTG GCTTGGGACA TCAGTGGGGC 180  
 CAAGGGTTCT CTGTCCCGG TTCAACTGTG ATTTGGCTTT CCCGTGTCTT TCCNGGTGAT 240  
 GCCTTGTTTG GGGTTCTGTG GGTTTGGGTG GGAAGGAGGG CCATCTGCCT GANTGTAACC 300  
 NGCTAGCTCT CCGANGCCCT ACGGGCCTGN CTNGTGTGAG CGTGTGGACA GTGGTGGCCG 360  
 GCGTGTGCC TNCTCGTGTT GCCTACANTG TNCNTGGCTG TTGAGGCGCT GCTTCANGCC 420  
 TGCAACNCGT CCNTNGTCTC ANTACAAA 448

## (2) INFORMATION FOR SEQ ID NO: 904:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 461  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear



## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01030

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 904:

```

GATCGGTTTA CAGATGAGGA AGTGGATGAG CTGTACAGAG AAGCACCTAT TGATAAAAAG 60
GGGAATTTCA ATTACATCGA GTTCACACGC ATCCTGAAAC ATGGAGCCAA AGACAAAGAT 120
GACTGAAATA ACTTCAAATT CCAGCCAAAC GTTCCTTGTT GCCACTTTGG GTATTCTGAG 180
ATTTTCTCTT GCATGCCCTT AGCTTTACAG CTTTTCGATT TCCTGTTGTA TTTATTCTCA 240
GCCATTTTGG GCATATGTAT CTTTATAATC AGACTGGAAA CGGGACTTTC TATTAATATC 300
ATTTTTCAGA ATAAAAAATA GGGTAATTTA ACCTACCAGC CCTTCTCCCC CAATAACTGT 360
GGGCCTATAC AGNGTCAATA TATTTTTTNC AGNGAAAGGT TTATTCGGCT CGATTTTTTT 420
CTGGAANTCC ATAATTTAAC CTTTTATGGG TTAAANTTAA A 461

```

## (2) INFORMATION FOR SEQ ID NO: 905:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 453  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01032

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 905:

```

GATCAGGGAC CATGAAAAGA AACTTGTGCT TCACCGAAGA AAAATATCTA AACATCGAAA 60
AACTTAAATA TTATGGAAAA AAAACATTGC AAAATATAAA ATAAATAAAA AAAGGAAAGG 120
AAACTTTGAA CCTTATGTAC CGAGCAAATG CCAGGTCTAG CAAACATAAT GCTAGTCTTA 180
GATTACTTAT TGATTTAAAA NCAAAAAAAC ACANAAAAAT AGTAAATAT AAANCCAAAT 240
TAATGTTTTA TAGACCCTGG GAAAAAGAAT TTTCAGCANN GTACAAAAAT TTANCGCATT 300
CCTTTCTTTA ATTTTGTANT TCTTTACTGT GGGAAATAGCT CAGAATGTCA GTTCTGTTTT 360
ANGTAACAGN NTTGGATAAC TGAGCAGGGN ANCGNAATTT TGGNTTTNTA AAATTCCTTG 420
CTTTNANTAN ANNTTCCCTT NNCCCGGTGG AAA 453

```

## (2) INFORMATION FOR SEQ ID NO: 906:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 445  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01033

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 906:

```

GATCCGATGG AGAAGGGGGG ACCCAGGCCA GCAGGAGACA GGACCCCCGA AGCTGAGGCC 60
TTGGGATGGA GCAGAAGCCG GAGTGGCGGG GCACGCTGCC GNCTTCCCCA TCACGGAGGG 120
TCCAGACTGT CCACTCGGGG GTGGAGTGAG ACTGACTGCA AGCCCCACCC TCCTTGAGAC 180
TGGAGCTGGC GTNTGCATAC GAGAGACTTG GTTNAACTTG GTTGGTCCTT GTNTGCACCC 240
TCGACAAGAC CACACTTTGG GACTTGGGAG CTGGGNCTGA AGTTGNTCTG TACCCNTGAA 300
CTCCCAGTTT GCGAATTATA GAGACAATCT ATTTTGTTAC TTGCACTTGT TATTCGACCA 360
CTGAGAGCGA GATNGGGAAG CATAGATATC TATATTTTTA ATTCNCTAT NGAGGGCCTN 420
GTAAATAAAT TTCTAAAAGC CTAAA 445

```

## (2) INFORMATION FOR SEQ ID NO: 907:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 444  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01034

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 907:

```
GATCTCAATG AAATTAAAT AATAACTATA TCTAGAAAAA CTCCCAATAT GTGAATATTA 60
AGCAACATAC TTATAAAAAA TTCATAGTTC ATGGATGAAA TCAAAAGAGA ATTCAAAATA 120
TTTCAAAATA AATTATGATG ATTATATAAN ATGTAGAAAT GTGTGGGATG CCACTACACC 180
AGTTCTTAGA GTGAAATGCA CAGCTTTCAA GGCTTCTGTT AAAAGAGTTG GGAATTACAA 240
AACAAAGGAGC AGCGACTGCC AATGGGTGTG GAGTCTTTT TGGGGTGATG ATGAAAATGT 300
TCAAAATTG ATTTTATTGA TGGTTACACA CGTCTATAAA TATATTNAN CGGNAGAATT 360
ATATGGATAT ATATGTGATA TATGGAGGTA TATCCTCTGT AAAATTCCTA NGGGTTTAA 420
GGAGGATTGG GTATCCACAC CAAA 444
```

## (2) INFORMATION FOR SEQ ID NO: 908:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 440  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01035

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 908:

```
GATCCAGTG TTGCCTTAAC AGGGTGTCTG TCGTGCCGCA GTAGAGCACT GCTGCTTCCT 60
CCAACCCCAA AATTTATGTT CCTAAGTAAG TCAGGTCCCT AAGCCCCGTC CCAAGAAGTG 120
ACACAAGTGG CCAACATCCA CACTGTAGGC TTGCAGGCTA CCCGCCCTGA GATTGGTAA 180
AGAACTGCT CTTGTTCCCC ATCAGTAAAC AAGGTTACCT ACCTCAGGAG GCTGCTTGTG 240
AGAGAGCAAA TGCAGTATCT TCAGANTGAT TTATTTTTTT ANTTAATTGT AAAGACTTGT 300
GCCATTGGCT GCTCTTTCTA GTCCCCTAAN TTTCTGTTCT AGTTTAAANT TTCTCTAGAN 360
CTTGCAATNG TTGGGGGGTT TTTATANTGG TGTTTTNCA ATGNTTGTG TCNTTANNNT 420
AAANCCTTAA AAGTTCCAAA 440
```

## (2) INFORMATION FOR SEQ ID NO: 909:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 439  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01036

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 909:

```
GATCGGCGTG GGGGTGCTGC TCATCTTCCT TGTCAAGTAC GACCTTAACA ACCNGGACAA 60
GCACGCCAAG CTGGACTTCC TCAACAACCT GGCCACGGGN CTGGTGTTCA TCATCGTGGT 120
AGTCAACATC TTCATCACGG CCTTCGGGGT CCAGAAGCCC TTGATGGACA TGGCACCCCA 180
```

GCAGTAGGAC ACCCAGGACC NTGGATGCTG CCTGCCNNTG CAACTCAGCT GCCCCGACCCC 240  
 AGGAGTCGCC ATACCTGTNA GGTGTCCACC TCCCTGCACA TGGCACTACC CAGANTGCCA 300  
 GAGCCCAGGC TGGNCTCATC TGCACCATGT CCCC GGACCA GCCCTTGCTC TGANTGCGGG 360  
 CCAAGNACCA NGTAGGAGGN CACTNTTGTT TNTNAGCAGN TTTTCCAGG NGGGNAGTTN 420  
 NNTTCTGGGA AATTGGGGN 439

(2) INFORMATION FOR SEQ ID NO: 910:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 435
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01037

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 910:

GATCCAAGGA CCCACACTTT GTCACCTCAT ATCTCTCTCT CTCTCCCACT TTCGCTTTCT 60  
 CTGTCTCTTC TTAGTTCTGC TTTCCCTCCAC TGTGCCTTCG CTCTCAGAGA GAGCTCTCCC 120  
 CTGGCAGTGA CAAGATGGCT GCAGCAGCTC CAGCAACCTC AGAGGACTCC CCCATCCAGG 180  
 GTCCTTGTTGA GCTCCTCATC TGTAGGATGT GCAGTAAACA CTCACGTGTC CTTTCCTGAG 240  
 GAGCCCAGTG GCTGGGGTGG GGGCTGAGGG GCAGCCCCTA TGCCCTCACA GTGCAGCAAC 300  
 CTTGGTTAGC TCACCCATCA GGGCAGACTT GGGCAGAAAT CATGTCTTGG CATATTGTTT 360  
 TGTAATCTGC TTTTAAATT GTCATATAT ATTATGAGCA TTTCCCTATA ATATACAATA 420  
 TTCTTCCACA TAAA 435

(2) INFORMATION FOR SEQ ID NO: 911:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 433
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01038

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 911:

GATCATATGA AAAAGTAACA AGCTGTTCCN TGTTTCTGAT ACATAAAATN ATTTTAAGCA 60  
 TTTTATCAAT CATTAAAATT TACTGCCAGT TGTGAGTGGC TTTTAAATTA ACTTGTCTTT 120  
 CATTGCACTT CACTCTGCCT GTTTTCAAGG GGAGTAAGAT TGGTAACATT TGGGGAGACT 180  
 GTATCTGTCT ACTTAGCGTG GCTGTTTTGA GGGACTGTCC CATCAGTGAA CAACTGCAT 240  
 GGCCTTGGAG AGAGACTCTG GGCTCTTGGC TCAGATGTGT TCATCAAATA CTCCTTTCAG 300  
 AGCTGTTGTG GGTGTAAGTG ACATGATGTG GCCAAAAAAT CCAAAGTGTG CAGTTGCGNT 360  
 TGTGACAACC ATGCAATGTG NCTGTAAAAA TTNANTTNCA GTTTAAATTN ANATNNTTTA 420  
 TATTNNGTGG AAA 433

(2) INFORMATION FOR SEQ ID NO: 912:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 431
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01039

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 912:

```

GATCTTTCTA ATTCGAAAGC TGTGTTCTTT TTGAATACCG TGCATGGGGG TTAAGCTGAT 60
GTAAAAACAG TTTGCAATAA AAAAAAATGA ATNAGCTTAA GTCATTTAAT CATTTCAAGT 120
GCATTCTGCA TCCTTTAAAA ATAAGTTTAA GAAATTTAAG AGAATTGTGT TTTCAATTAAG 180
TTTTGCATAT CTTTGTGTTAT GCCATGTAAA TNCCCTTTTN CGTATGATTA AAGGAAGGTT 240
ATGATAAAAT GATTAGTTCA TTTACATTCA CTTGTAGCAA TTACATGAGA ATTTGAATTT 300
NGTCGTGTTT GGGTTTGTNC ATTCTGTGA ATGATGGTNC AGTTAGGTGA GATTNCTGT 360
TATGGNACCC CAACTACCA TTTGGNCCTC TTTAATCTTT GGGGGGTTCC AATAAAAAATT 420
GGTCACTNAA A 431

```

## (2) INFORMATION FOR SEQ ID NO: 913:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 431
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01040

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 913:

```

GATCCAAANT TTAAGGGGATA TTGCCTATTT TGGAAGAATA AAACATAAAT GTTAAAACTG 60
TTGAATTACA GAGAACAGAT GTACTCTGAG ACATAATTTT AAACAAATAT TTAAAAATANG 120
GCAGGTTAAC ATTTGCGTTT AGGCACAATA AATCTGTATT AAAGGGAAGC ACATCAAGGA 180
AATATATACA TGTTGANTAA TGTAACNAA AAATATTTTT TAAANCCAC TTAAAAATGA 240
NAAATAATTT GATGGGTACT TTAAGCATTG TAGATAGAAA TTAATGTATA ATAGTGTCTT 300
CCCGTCTTT GTATGAAAAN TTAANCTC TCTAGTCCTT TAATGAGCAT GANTTTTATA 360
CTTCTACATT TTGTTGCCTA GGNAAAATTN TCCTCNNGTA CCTTTGAGGT NATTCGGGAT 420
TTTATGTTTT N 431

```

## (2) INFORMATION FOR SEQ ID NO: 914:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 430
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01041

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 914:

```

GATCTATAGA GAGAGATATA TACACTTTTG ATTGTTTTCT AGATGTCTAC CAATAAATGC 60
AATTTGTGAC CTGTATTAAT GATTAAAGT GGGGAACTA GATTAAATA TTTGTTTTTT 120
AACTAGTTTA TTAGTTTCTN TGGAATCTGC CTGTGTCCCT GGGTTTGGGT TTTGCTCTTG 180
GCAGCAGCAG GTGCCTCTTG GGTGCTCCTC CTGCTCCTGC CTGCAGCCCT AAGAGCAGGT 240
GGGTGCCGAG TGTCTGGCAC AGCTTGATG CCGCCACTG AAGACAGCAG AGGGGGGTTG 300
TNTTGAAGCT CCCGNGACAC AGTCAAGCAT CTTCTGAGNC TTCGATGTCT TCGGNAAGTA 360
AAAATGGGGN TTTAGTAAAA CCCTGCCCN GTTNTTCA CA GGGGGTTNTT TTGCAAGNNA 420
AANTGATAAA 430

```

## (2) INFORMATION FOR SEQ ID NO: 915:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 428
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS01042
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 915:

```

GATCAGATTC TAATTTGACA GGCAACCAGT CAATGAAACA GACACACCTG CACAGTTGGA 60
AATGGAGGAT GAAGATACAA TTGATGTGTT TCAGCANCAG ACAAGAAGTG TCTACTGNAA 120
AAGGANCTTG CTTCTTTACT CTAGAACTTT GTTCTTATAG ACCAAGATTA CATTCTCAAT 180
TAGAAAAC TG CAATTTGGTT CCACCACATC ATGACTATTA CTATAGTATA GTTTTCTCTA 240
TTCTTTTATT TTTCCCTTTA CCCATTCCCT TATTTGTACA TAAAATAATG GGTGTATGTT 300
CACAAGCATT TTGCTGGTTT TNAAATATTA ANTGGCCAAT GACATCCACT TGATGTCANT 360
CAANACNATA TCTGTGGGGG NAAANTACCG NTTCTTGAA ATTTNCCTCC NNTTTTTCCT 420
TNAGTGGN

```

(2) INFORMATION FOR SEQ ID NO: 916:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 428
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS01043
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 916:

```

GATCGCCAGG TTCTACAAGC TGCACGAGCG GAGGTNTGAG CCCATTGCCA TGACAGTNCC 60
TCGAAAGTCG GACCTGTTCC AGGAGGACCT GTACCCACCC ACCGCAGGGC CCGACCNNTC 120
CCTCACGGCT GAGGAGTGGC TGGGGGGTCG GGATGCTGGG CCCCTCCTCA TCTCCCTCAA 180
GGATGGCTAC GTACCCCAA AGAGCCGGGA GCTGAGGGTC AACCGGGGCC TGGACACCGG 240
GCGCAGGAGG GCAGCACCAG AGGCCANTNG CACTCCAGC TCGGATGCCG TGTNTCGGCT 300
NNGAGGAGGA GATGCGGGAA GTTCCAGGCC ACGGTGCAGG ANCTCCAGAA GNNGTTNGGA 360
CAAGGNTTGG AGGAGACAAG TCCAAGNNCA AGTAGNAGCC CCTGAAGGNN TTTNCATCAN 420
GGTTTCAN

```

(2) INFORMATION FOR SEQ ID NO: 917:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 424
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS01044
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 917:

```

GATCCAATAT TCAATTCATT TGTGTACTCC CACATGCAAA ATGCTAAATT ACAATGCAGA 60
CATTAAAGAAA AAGTATTGAC TGGAGGGGTT GAATTCCTTG AGAATTTATT TTATAGTCTA 120
AATCACAAAT ACTTTACTCA ATTTAGTTTT TAAAATAGTA AACTGAATAT TTTTGTGTGA 180
AGCCTATCAG AGTCAATCCT TCGTTTGAA TTGTTTTCTT GTTTTNCCTT ACTATAAATC 240
ATTTAAAAAC TGAATTCATT TTCTTAGATG GCATAAGTCT GTCTCTTGAG AAATAAGTAA 300

```

AATACTCCTA TTTTCAGTAT CTGTAGCACC TGAAATAGGT CTTTGTATAG CCAGAAANCAA 360  
 GTTATGNTTG AAGTTAGCTT TTCTTTGTCA CCAGTTTGG NCAATAAAAA TCTGAANGTT 420  
 TAAA 424

(2) INFORMATION FOR SEQ ID NO: 918:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 422
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01045

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 918:

GATCAACATA ATGGACCACT CCTGAATGAG ACTTAATTTT GTCTTTCAAA TTTACTGTCT 60  
 TAAATCAGTT TATTAAATCT GAATTTTAAA ACATGCTGTT TATGACACAA TGACACATTT 120  
 GTNGCACCAA TTAAGTGTTG AAAAATATCT TTGCATCATA GAACAGAAAT ATATAAAANT 180  
 ATATGTNGAA TGTTAACAGG TATTTTCACA GGTGTGTTTC TTGATAGTTA CTCAGACACT 240  
 AGGGAAAGGT AAATACANGT GANCAAAATA NGCAACTAAA TGAGNCCTAA TAATTGGCCT 300  
 TCGATTTTAN ATATTNGTTC TTATAAACCT TGTCAATAAA AATAAATCTA AATCAAAAAA 360  
 AANTTGGTTC CACCTNTGCA GGTTTTTATA ANTGGTGCCA ATTAAAGGTT TTTGTTTTTA 420  
 AA 422

(2) INFORMATION FOR SEQ ID NO: 919:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 422
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01046

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 919:

GATCCTTACT AAGTNTTTC TGGGAGACTT CCTTCATCAC ATCTTATGTT GAAATCACTT 60  
 TCTGTAGTCA AAGTATACCA AAACCAATTT ATCTGAACATA AATTCTAAAG TATGGTTATA 120  
 CAAACCATAT ACATCTGGTT ACCAAACATA AATGCTGAAC ATTCCATATT ATTATAGTTA 180  
 ATGTCTTAAT CCAGCTTGCA AGTGAATGGA AAAAACNNNC AAGCTTCAAA CTAGGTATTC 240  
 TGGGAATGAT GTAATGCTCT GAATTTAGTA TGATATAANG AAAACTTTTT TGTGCTAAAA 300  
 ATACTTTTTA AAATCAATTT CNTTGATTGT AGGTAATTTT TATTTGCACT GGGCCTTTCA 360  
 ACTCCAGAAA CATTCTGANG GTGGTACTTG GGGTTTAANT TAAAAGGTC CACTTTGGTA 420  
 AA 422

(2) INFORMATION FOR SEQ ID NO: 920:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 410
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01047

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 920:

```

GATCGCTGTT TCCAGAACGG GGAGGAGTAT CTCATTGTGA AACAGACTCT AGAGTGGTTC 60
TATTTGGTCT TCAGTGT TTTT AGCCTCATTA GTTCATATTT GGCATGCAGC TTGTGGTGAG 120
TACTGTTCTA GGACTGGCCA AAAATGGGCA AAATGTATCA CTCCAAACAC TACTGATTCA 180
GCATTGTTTT CATGTCTTAA AATTGCCACC TGCACTTTGT TTCTGCACTA TTATGTAGTG 240
CATTTTAACT TAAATTTTTT CCAGCAACAT GTTACTTATT TANGATACAT TACTGATATT 300
TCATTATAAT TANGTTCATC TTCCCTGTGA AACAAGAGAA TTGTAAAATG TTGTGGGAAA 360
ATGATACATA TGTGGGATGC TAATGNAAAT CATAGGTATT TTTGTGTAAA 410

```

## (2) INFORMATION FOR SEQ ID NO: 921:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 409
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01048

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 921:

```

GATCACANTT GANCTGGCAG CGGGATGGCG AGGACCAAAC TCAGGACACC GAGCTTGTGG 60
AGACCAGACC AGCAGGAGAT AGAACCTTCC AGAAGTGGGC AGCTGTGGTG GTGCCTTCTG 120
GAGAAGAGCA GNGATACACA TGNCATGTAC AGCANGAGGG GCTGCCAAAG CCCCTCACCC 180
TGAGATGGGA GCCATCTTCC CAATCCNCCN CCCCCATCGT GGGCATTGTT GCTGGCCTGG 240
NTGTCCTAGC AGTTGTGGTC ATCGGAGCTG TGGTCGCTGC TGTAATGTGT AGGAGGAAGA 300
GCTCAGGTGG AAAAGGAGGG AGCTACTCTN AGGCTGCGTG CAGCGACAGT NCCCAGGGCT 360
CTTAATGTGT CTTTNACAGN TTGAAANGCC TGAGACAGCT TGTTTTGTN 409

```

## (2) INFORMATION FOR SEQ ID NO: 922:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 407
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01049

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 922:

```

GATCCAGGCT GTCATGTGAT TTATGGTGGC ATGTGTTGTG TATTTGTTGG CTAATTGTGT 60
CTTGAAATCT AGAATTATTT CACGCAGAAT TGTCAGTGTG TGTCAGGAAG AGAAAATGGG 120
CTAGTGGAAG CCCAGTCTTG AGTTCTTGTC TTGTTACCAT TTAAAATTGA CATTTAATTT 180
TCAAATCACT GTTGGTGCCT AATCACTNAA GTTATTAATT TATTCTGTTG TATTCTTTTT 240
TTTNAAATNG TAACATATTT ATCCGGTGGG TGGGACAGGA GTGTGTTCAA GTGGGTCATG 300
TTTTTNCGTG GGTGACACAT GGTACAGGCT TGGAGCTTGC AGGTCCCTTT CTAATTGTGT 360
TTTGGAGCAG GNCAATTAAA GTCCACTANG AAATNCACCN CTTTAAA 407

```

## (2) INFORMATION FOR SEQ ID NO: 923:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 411
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01051

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 923:

```
GATCCAGGTT CCTCCAGAAA TAAGATATAC AGATTACTTT GTNATTGTAA GTGGAAC TTC 60
TACCCGACAC TTACATGCCA TGGCCTTCTA CGTTGTGAAA ATGTACAAAC ACCTGAAATG 120
TAAACGTGAC CCTCATGTTA AGATAGAAGG GAAGGACACT GATGACTGGC TGTGCGTGGA 180
TTTTGGCAGC ATGGTGATTC ATTTGATGCT TCCAGAAACC ANAGAAATCT ATGAATTAGA 240
GAAATTATGG ACCCTACGTT CTTATGATGA CCAGTTAGCT CAGATAGCAC CTGAGACAGT 300
ACCTGAAGAC TTTCATTCTT GGAATAGAAG GTGATACTTN ATCTGTNACT NCANTGGGNG 360
TAAAATGTG GATTAAATTN TTTTANTGCA NTGNNGTTAG TCATTTTCAA A 411
```

(2) INFORMATION FOR SEQ ID NO: 924:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 109  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01052

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 924:

```
GATCAGAGCN TATNTTATGA TTGTTGATAA CTAACCAAAG TAGNTGCCTG CAGAGACTTT 60
AAAATGTAAA ATAAAGATGT ATGCTGCCTG TCAGCTATTC TCATTTAAA 109
```

(2) INFORMATION FOR SEQ ID NO: 925:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 405  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01053

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 925:

```
GATCCGAGGC TGGGAAGAAG GGGTTGCCCA GATGAGTGTG GGTCAGAGAG CCAAAC TGAC 60
TATATCTCCA GATTATGCCT ATGGTGCCAC TGGGCACCCA GGCATCATCC CACCACATGC 120
CACTCTCGTN TTCGATGTGG AGCTTCTAAA ACTGGAATGA CAGGAATGGC CTCCTCCCTT 180
AGCTCCCTGT TCTTGGGTAA GGAAATGGAA TACTGAAGGG CCCTTCACTG CCTTTGCTCC 240
TCCCATGTTA TGCCAGCGT TTGATGGGTA GCAGAGAGGA CANANATCAC CACATGGCTA 300
TTTTTCCCNC TGAATNCTGT CTNGNATTGN GTACCTNTCA AGTGTTATTA GTGNATGCTT 360
TNGAAATGAA AAATTTGGGC NACCTTATGG GNAGGGNGTN GGAAA . 405
```

(2) INFORMATION FOR SEQ ID NO: 926:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 405  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01054

(ix) FEATURE:



## (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 926:

```

GATCTTAAGC AGTAATCTGT CAGTGTGTTGT ATTTGTATTC TCTGCAATTT TACTGTGAAA 60
AAAAATTTGT TTTCAACAAT TGGTGTCAAT TTCTTGATGT CACTATTTGT NGGAGAGTTA 120
AATGGTCTCT NCCCTTTGTG TATCTTACCT AGTGTGTTACT CCTGGGCACC CTTAATCTTC 180
AGAGGTGCTA AATTGTCTGC CATTACACCA GAAGGATGCC TCTGATAGGA GGACAACCAT 240
GCAAATTGTG AAATAGTCCT GANGTTCTTG GATTACTTTA CACCTCAGTA TTGATTTGTC 300
CCAGAATTTN CTGGCCTTNC ATGGCANTGA AANTNTTNGG GGGAAAGATT TAANGTATTT 360
NANNTTTAAN GAGTGTGTTA TAANNATANT TGTACTGNNT NCTNN 405

```

## (2) INFORMATION FOR SEQ ID NO: 927:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 404
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

```

(B) CLONE: HUMGS01055

```

## (ix) FEATURE:

```

(D) OTHER INFORMATION: "N"=unidentified base

```

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 927:

```

GATCTATGTT ACATTTACCA CACTGAAGTT TTTTTTGTG TTTTTTGTTT GTTTTTAAAG 60
AATCACCTC ATTGTTGAAA GTAAATGTAC TCTTAGGGTG CGAATATTAG TGTTCOAATA 120
AGCATGTGAT TATATTAAGG TGGTGGTAGC GGGAAGATAA TTCTGATTCC ATTGGGAATC 180
TTAGGTTTTT GTAAATTTAT TGGGAAAATA GTTTTTCCTG TACTGCTGAA GTTTCTTTTT 240
GGTAAACAGT ATCTTCTTAA AAGAAAAAAG CATGAAGGGA GAAATTGAGG TGTGTATACA 300
TTTCCTCAAA TGACCAGCAT TGTATTCGTG AATACTGTGT ATCTTGCAGT GAACAGTGTG 360
GAAGCTGTTC ATTTTTCAT CTGAAGTAAA ATACTTTCAA GAAA 404

```

## (2) INFORMATION FOR SEQ ID NO: 928:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 399
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

```

(B) CLONE: HUMGS01057

```

## (ix) FEATURE:

```

(D) OTHER INFORMATION: "N"=unidentified base

```

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 928:

```

GATCANGTGT AAATGTGACC TTGTACAGTT TACTAAAATT ACTGATATTT TCACTACAT 60
TGAGACAGTT ACTGTGAGAA TAGGACACAA ACACCAGCTA TTGCCTGCAT CTGGGAAATT 120
GCTGAATCGC ACAGCAGTCA TGTCATAATC AGAAAATTAC TGCCAAATAA TTGTAAAATT 180
TGTAAGTAT AAAGTATATA AAGTAGATAC TAAATACAGN CACTTCANTA TTTTGTGAA 240
GCTATTGACT GTACANTTAG ACATTTTCAN ANGGGTGTAA TTTATTTANN GTTGTCTCAT 300
TTTGTTAAAA TTTATGTGAA CTTTAAAGC TAANTATTAA NCCTTAATAT GCTATGTAAA 360
TNTTTTCNT NTATACCATT TNCTGGTGGT NTTTTTTTN 399

```

## (2) INFORMATION FOR SEQ ID NO: 929:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 397
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01061

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 929:

```

GATCTGCAGA AGGTATCTGG TGATGCAGAG ACTCTTTCCC CGCATCCNTC ACATGAAAGA 60
CCCCATCGGT GACAGCTTCC AAAACGACAA GCTGGTGGTC TGGGAGGCGG GCAAAGCCGG 120
CCTGGAGGAG TGTCTGGTGA CTGAAGTACA GGTCGTGCAG AAAACTTGAG ACTGGGGTTC 180
AGGGCTTGTG GGGGTCTGCC TCAATCTCCC TGGCCGGGCC AGGCGCCTGC ACAGACTGGC 240
TGCTGGACCT GCGCACGAGC CCAGGAATGG ACATTCTTAA TGGGTGGTGG GCATGGGAGA 300
TGCCTGTTTA ATTCGTCCG AAGCTGCCAA GGAAGAAGAC CAGAACTTTG TGTGTTTATT 360
TCATGATAAA GTGATTTTTT TTTTTTTTNA ACCTAAA 397

```

## (2) INFORMATION FOR SEQ ID NO: 930:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 402  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01062

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 930:

```

GATCCCCAAC AATGTCAAGA CAGCCGTCTG TGACATCCCA CCTCGTGGCC TCAAGATGGC 60
AGTCACCTTC ATTGGCAATA GCACAGCCAT CCAGGAGCTC TTCAAGCGCA TCTCGGAGCA 120
GTTCACTGCC ATGTTCCGCC GGAAGGCTTC CTCCACTGGT ACACAGGCGA GGGCATGGAC 180
GAGATGGAGT TCACCGAGGC TGAGAGCAAC ATGAACGACC TCGTCTCTGA GTATCAGCAG 240
TACCAGGATG CCACCGCAGA AGAGGAGGAG GATTTCCGTG AGGAGGCCGA AGAGGAGGCC 300
TAAGGCAGAG CCCCATCAC CTCAGGCTTC TCAGTTCCTT TAGCCGTCTT ACTTCAACTG 360
CCCCTTNCT NGTCCNTCAA GAATTNGTG TTTTGCTTGC CN 402

```

## (2) INFORMATION FOR SEQ ID NO: 931:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 396  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01063

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 931:

```

GATCTGCCGA CCTTGCTATA GATGCCATGT TACCAATGAT TTCCTGTGGT GGGGGCTTGC 60
CATNTTTTAC TCTCTTATTT ACCAACTTCT GGCCTAGGCA TGACAGTGGG CACCTTCCCC 120
CAGCCCTGGN TGGGCCCAGC GCCTNTTTTC TGTGTTAGAA AGGTTTTATA TATATATAAA 180
ATTACATATA TATGTAGAAA TATATGTAAT NTTGGGGGCC CTGTTCCTTG CACATTTTAC 240
AGTTACCTCA TTTTNNCCA TGTATGTATT TGAGAAAATG CTAATATATA GNGAAAAAAA 300
TGGGTCTTAA AAGCTNAAAT GTGNGGTTTT TNCCATTCCA GGGGNTCACA TTNGGTTTGN 360
GGCATNGACN ATACCTNGTA TGTCGNNNTA TAAANN 396

```

## (2) INFORMATION FOR SEQ ID NO: 932:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 394

(B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01064  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 932:

```

GATCCGTGGA TTTTGGTGC AATTCCCCTT TTATTTCTTG TCTGAAGAAA GCCTACTGCC 60
TTCTGTTGGG ACCAAAGAGG CCATAGTGCC CATGGAGGTT TGGACTTAAG AGATATTCAT 120
TGGCAGCTCA AAGACTTCCA CCCTGGAGAC CACACTGCAC ACAGTGACTT CCTGGGGATG 180
TCATAGCCAA AGCCAGGCCT GACGCATTCT CGTATCCAAC CCAAGGACCT TTTGGAATGA 240
CTGGGGAGGN CTGCAGTCAC ATTGATGTAA GGNCTGTAAA CATCAGCAAG NCTTTATAAT 300
TCCTTNTGCC TAANTTGTA AANGGGGGNC TGCATTCTTG TTGGAAGNAT GNACTNTNTT 360
TNNGGAAAC CACATTTTAA AAANTTCCCG TAAA 394

```

## (2) INFORMATION FOR SEQ ID NO: 933:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 393  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01065  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 933:

```

GATCCACAGG CTTTTGTACT CAACGCTGAC AACAACCTTA AGAGGTAGGT ATCATTATAT 60
CAACCATTTT ATGAATAAGA AAACAACAGC ACAGAGAGAT GCAGTCACTT GCCCAAGGTC 120
ACACAGGGCC AGGGGTTGGG CCAGGATTCG AAGCAGGCAG GCTGTCTCCT GGGTCTGAAC 180
TCTCAACTAC TACACCCTAA TCAAACAATC CCTCTGGTCA AATGTGAGTG ATAATAATAG 240
TACCCACCTC GTGGGTGTTG AGGGTGAGCC CAAGTTAGCA TTCAGCGTGG GCATGTGAAC 300
AATTATAGTC AATATTGANT GGAGACCTAT GATGCTTTTA TGAAGGTTTC TATTTTGGGT 360
TAAAAAATGC ATAAAATTTT TCCTGACCAG AAA 393

```

## (2) INFORMATION FOR SEQ ID NO: 934:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 393  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01066  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 934:

```

GATCACCTTA AGTGAAATNA TTTNCCTTTA ATCTTTNATG TATTTATTCA CTTTTGGAAG 60
CTAGGAATGA GCAACACAAA TTTTACTCTG AAGTCAGAAG AGCTCATATA TAATANTTCT 120
AATGTCCAC CTATTTTCAC TTGTCCATTC CATGTACCAG CTTAGTTATG ATANNNGTC 180
ACATAATTAT CTTTGATAAA GGTAGAGGCA CAAAGAGGCA AACTAAGCAA GTCAAATTCT 240
AATGTGTGTA CTTCATAATA ATTTTTTATC CATTTTCATC TTTATATTCT GTAACATGAA 300
NCTTACCTAA TCTTCAAATG TTAGCTTCCA TTTTTTACCT TTGAAATACT TAAATCTTTC 360
TGGANTAAAT ATAATGGGGC CTNTAAAANT AAA 393

```

## (2) INFORMATION FOR SEQ ID NO: 935:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 392  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01067

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 935:

```
GATCCTGTTT TTTTCTGAGG TGAAAAATAA AACGCANTCA AATTTTCATGG TTTTAATTTT 60
NAACTCAGAA GCACTCAAAA ATGCAAAATG TGATAATGGG CACTTGTTTA AAAGANTTAG 120
TGTATCCAGC CTTCACTCCA GCTGGTTAAA AATGTTGCAC TTATCAGCAA CCNNACCACT 180
TTCATCTGCT GAAAGGNCAA ATGTGCTTGG TTTTACTATT ATGTAATCAC AACTTTCTTT 240
TNTGCTTGTA GTTGCTTAAA ATTATGTATT TGGTCTNGGG CTGCAATTG GTTTNATGCT 300
NTATNTGATT ATTACNGCAG TAGGTTGCCT NTCCNGTATG GGAAAAATAA AGTGGAATNG 360
CCNAATTAA ACCNCCTCTN TCTTAAGGTA AA 392
```

## (2) INFORMATION FOR SEQ ID NO: 936:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 391  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01068

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 936:

```
GATCAGGCAG CCTCCTGATG CCAGANCACC TCAGGCAGAG CCTACTCAGC TGTACCTGTN 60
TGCCTGGACT GTCCCTGTC CCCGCATCTC CCCTGGGACC AGCTGGAGGG CCACATGCAC 120
ACACAGCCTA GCTGCCCCCA GGGAGCTCTG CTGCCCTTGC TGGCCCTGCC CTTCCCACAG 180
GTGAGAAGGG TCCTGTCCAC CAGCACACTC AGTTCNTTTC CCTGCAGTGT TTCATTNAT 240
TTTAGCAAAN ATTTTGCCTG TTNNTGTTNA AACATGATAG TTGATATGAG CTGAACCCCT 300
GGGTTNGGNG GGAATTGGTC AGAGTGGCAA CCTGGGACTG TGAGCCCTGT TCGGNACAGN 360
NTATGGATAT GAAAANTCTG NCCNNNGCNA N 391
```

## (2) INFORMATION FOR SEQ ID NO: 937:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 390  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01069

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 937:

```
GATCTTTCCC AAGATTGTAA CTGAAAACCTG CTGTCTCTTG TTTTNTTCGT TTTGGGGGTG 60
GTGGTGCTGG CTGGGCCATG CTTGTAAAGT GATGTGTGTC TCTGATTAA CGGATTCAC 120
GTTTTCTCTG CTAATTGAGA GAGCGTTATT TACATTATTT ATTTGTTTTG ACACAAGTNC 180
TTTCAGTGTT TTATCCTAGC TAATGGCTTC TTAAAGGTAA TAAAACCCTT CCAACGTAAT 240
TGGTCAGATA AAACTTTTTT CTTGTATGCT TTAAATAAAG CAATTAGTGA AGCACTTCTA 300
```

TCCTAAATGA CTTTTTTGTC CTTTTTTAAA ACCAATTTAC TGTTACTGGA AACTTTGTAC 360  
 AATAAGCAA ATCAGCAGA TTAANGGAAA 390

(2) INFORMATION FOR SEQ ID NO: 938:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 389
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01070

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 938:

GATCAGAGGG AAAGAATGAC CAACCNNGCA ATAAGTGTAC TAAACTCTAC GCTCTGGTTA 60  
 ATGTAATGTA CTCTCCTGGA CTGAATGCAG TGTATAATTN CTGTCTACAG CTAGAAGCTG 120  
 TGCCCCAGTT CCACATTTGA TTACACATGT NAGATTTGCT GCTGTTGCAG TATAAACACT 180  
 AGGTATAATA GGATTTGAAA TTGCATTACA GTTCATAAAA NTNGAAAATG AGGAATTAAA 240  
 CCNGCAAGTG AACATTTGAA CGNTTATNCT NTCTACATAA GACATGGTTG GGACATCAGT 300  
 ACTNACAAGA TGGTTTANGT ATGGTACTAG NGNANTTAAG NTTTCTTTCT CTCTGGTTTA 360  
 TNGATNGGGT TATTTCCATT ATGTATTNN 389

(2) INFORMATION FOR SEQ ID NO: 939:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 390
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01071

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 939:

GATCTCACGC TGCCTCTGTG GTTCCCTCCC TCATTTTTTCC TGGACGTGAT AGCTCTGCCT 60  
 ATTNCAGGAC AATAATGGCT ATTCTAAACG CTAAGGAAAA AAAACAAACA CAGAACTGTT 120  
 TCAAGTACTC AAGACTGACT TACAGACCAA CCAACCACCT TGCTGGAACC CTTGCTAGCA 180  
 GGCATTCTTA TAAAAGAAAC TTTCGAGCCT CCTTATATTG CTGGAAACTC AGCTGTGCTC 240  
 CAGACTAGAG CCTCCTTACC TATGCTATGG ATTTTAAATT TATTTTCTCT TATTTTCATGT 300  
 AACTGCTTT TTTTGGTTAC AGTGTATGAT GGATGTGTAT GAAAAAATG TATCTTTGGG 360  
 GAACCAATTA CAGTTTTGTT AATTGGAAA 390

(2) INFORMATION FOR SEQ ID NO: 940:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 543
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01072

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 940:

GATCCACACA CGTTGGTCTT TTAACCGTGC TGAGCAGAAA ACAAACAGG TTAAGAAGAG 60  
 CCGGGTGGCA GCTGACAGAG GAAGCCGCTC AAATACCTC ACAATAAATA GTGGCAATAT 120

```

ATATATAGTT TAAGAAGGCT CTCCATTTGG CATCGTTTAA TTTATATGTN ATGTTCTAAG 180
CACAGCTCTC TTCTCCTATT TTCATCCTGC AAGCAACTCA AAATATTTAA AATAAAGTTT 240
ACATTGTAGT TATTTTCAAA TCTTTGCTTG ATAAGTATTA AGAAATATTG GACTTGCTGC 300
CGTAATTTAA AGCTCTGTTG ATTTTGTTTC TGTTTGGATT TTTGGGGGAG GGGAGCACTG 360
TNGTTTATGC TGAATATGA AGTCTGAGNC CTTCCGGTGC TGGGGACCAC ACANGNGTTN 420
GTTGNAAAGT TTGACCAAGN AGNCCTGCGC ATNNNCTCTG GATGCCTNTG GTATCCATTC 480
TTNGANGCAA TCCGCTCGGG NCCCGTGGGC CCAATAAANC NGGTATTTNT CCCAANGGGG 540
AAA

```

## (2) INFORMATION FOR SEQ ID NO: 941:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 132
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01073

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 941:

```

GATCTCAAGA TTTCTAAATT GTCAAGATTT ACATGGCATT GTGGTGGAAC TAGTTAACAC 60
TTAGAGCTTT TGGTATGTAA TAACTATTTG CTATGGACTG ATTAAATGTT TCAAAAGATT 120
GTGTTCTTCA AA

```

## (2) INFORMATION FOR SEQ ID NO: 942:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 387
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01074

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 942:

```

GATCAGCACT AAGTCCTGCA TTCCTGTAA AGCCACTTGG GTCATAAGAA GGGAGTAAAA 60
AATGAAGTCT GACTAGNAAC CTATTGCAGA GGCCAAGTAC ATTTAGTATG GCATTGAGTT 120
GTGATATAGT TTTACTTTGA TGTGCATTTT GAATTTTCAGC TACACCTAGA TAGACGTAAA 180
ATGATAATTA AAATGCTGTA ACCAATTAT CTAATAAAAT TGGCAACCAG CCACTATTTT 240
GTTGACTATG AGAAAGTTAA AAGTTTATGT TAATTTTNG GGTCTGATAG AATATTTTCAT 300
GTGTATTACA GTGGTATTCA TATGCTATGT CTCTAACTT TATTTTCAAA AGCTTANGGC 360
CCANATACAA NCTTCTCTGG GNNTAAA

```

## (2) INFORMATION FOR SEQ ID NO: 943:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 386
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01075

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 943:

```

GATCAGANAA AAAGTCCATA TGGACTGTGG ATACCTATCT AAAAGAAGAA AACTGATGGC 60
TAAGTTTGCA TGAAACTGC ACTTTATTGC AAGTNAGTGT TTCTAGCATT ATCCCATCCC 120
TTTGAGCCAT TCAGGGGTAC TTGTGCATTT AAAAACCAAC ACAAAAAGAT GTAAATACTT 180
AACACTCAAA TATTAACATT TTAGGTTTCT CTTGCAGATA TGAGAGATAG CACAGATGGA 240
CCAAAGGTTA TGCACAGGTG GGAGTCTTTT GTATATAGTT GTAAATATTG TCTTGGTTAT 300
GTAAAANTGG AATTTTTTTAG ACACAGTAAT TGAAGTGTAT TCCTGTTTTG TATATTTAAT 360
AAATTTCTTG GTTTTCATTC TTAAAA 386

```

## (2) INFORMATION FOR SEQ ID NO: 944:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 383
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01076

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 944:

```

GATCTTCTAG CTACCATNCA TTTTCTTCAC TGTTCAAAA AGATGAGTGT GAAATTCAGT 60
GAATGCTGTT ACTAATCCTG TTACGAGATG AATCTCATTT CACCAAAATT AAATTATGTT 120
TTTCCGCTAA AATGATGATA CAAGTTGAAG ACACATCACT CTGAAATTGG AAGACCTCAC 180
CACTTAAGGC TCCACAGTGG CTTACTCAGC TGAAGTCTAG GTTACTACTC TTTACTTTGT 240
TCACCCATTG GGGGGTGCAG TTTTTTTAAA ATGTTGGGAG ATGGCCATTC TAACTACTGT 300
TGAATGTCTC TGTTTTGGGA AGGTATAACA NGAANTAAAA ANGNNTATAT ATGANGGGAG 360
AGNCTGGTTA TCTCCTCCCC AAA 383

```

## (2) INFORMATION FOR SEQ ID NO: 945:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 382
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01077

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 945:

```

GATCTCTCCA TGTACCCTGC AGGGGGCTTG GTACTGTGAA ATNAGTAACT TAATCCTGAC 60
AACCAGTAGT CAAGGTATGG CCCATCTCCT GTACGCTTGG AGCGACCTTT GGCTACGTGG 120
CTGGCCTTGT TATTTACCA CTCTGGATAT ACTGGAATAG AAAGCAACTT ACATACAAGA 180
ACAATTAACT GGAGCAAAGG GAGATATTTT TTTGTGCAGA TTCTGTAAGG GCTGGGCAGA 240
AATGTGTATG GTCAAAGCCA AGCAGTTCCA TTTACAGCTC TGTTTTTTTAC GTAGTTACAA 300
CATGATGTGA TTGTAGCTTT TAAACTATG AAACCCCTGA GAGATTGTAC CTTCTAGTT 360
GAAATAAAGT ATTTATAATA AA 382

```

## (2) INFORMATION FOR SEQ ID NO: 946:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 381
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01078

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 946:

```

GATCCGAACA CCTCCAGATT CCGGCTTCTA CATGGMNCAG ACGGGGACGC ACAGGCCACC 60
TTCCTTCTGG CAGGGACTCT TATTTATTCC CATTGCTCTA GGGCTTTCNN TTTCCCN TTC 120
TTCCGGTAGG CCGCGTAGAG GCATGCACCG GGTAGGTTTC CGCGGTGACC CCGCGGCGGC 180
CTGAGGGACG CTCCCTGCCC CATCCCGGCT GTTGGGCTGG GCCGCTTTGC CTCTGCTTCG 240
NCCTGTGCTG TGTTCTCCAG CTTTGTAGCA GCAGCTTGAC AAACCCAGGC GCACTGTACC 300
AAGGCAATGT AACTTTTNAT TTTCGGTCAA TTAAAGTTCT TTTTGTCCACC AAATATTAAT 360
AAACCAGTTT TGGACTTNAA A 381

```

## (2) INFORMATION FOR SEQ ID NO: 947:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 380  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01079

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 947:

```

GATCTGAGTC CAGAGTTGGC CACTTTGTGT GGGTCCTCAC AAGCAAAGAG AGCACTAAAC 60
TTGACATTGG GGGTCCACCA CTCCAAC TTTTCTGAA GGTTTTGGTG TACATTGAGC 120
CCCAGAAGGA AAGGAGAGTA TCTGTGAGTG GGGGCCTCCC TTGACCCAG TACGAAGTCT 180
ATGCCCTGAA TCCCCAGAGT AGCCCTTCCT GGTGCCCAAC TGGCCTGGGG ACAANCAGCG 240
TCCACTACAT CTAGGCTGCC GGCTAAGTGG CACACTTCTT GACCTCCTAC CAGGACTTTG 300
GTAAAAGCTA GCTTTGGGGA GGGGTGGGTT AAATATGAGA GGTGGAGGNG CCANTGGTAG 360
AATAACATGG GTAGACTAAA 380

```

## (2) INFORMATION FOR SEQ ID NO: 948:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 380  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01080

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 948:

```

GATCTGCATC AGTTGTAAAG GGGAATTGGT ATATTCACAG ACTGTAGACT TTCAGCAGCA 60
ATCTCAGAAG CTTACAAATA GATTTCCATG AAGATATTTN NNNNCAGAAT TAAAAGTGCC 120
CTTAATTTTA ATATACCTTT CAATCGGCCA CTGGCCATTT TTTTCTAAGT ATTCAATTAA 180
GTGGGAATTT TCTGGAAGAT GGTCAGCTAT GAAGTAATAG AGTTTGCTTA ATCATTTGTA 240
ATTCAAACAT GCTATATTTT TAAAATCAA TGTGAAAACA TAGACTTATT TTTAAATTGT 300
ACCAATCACA AGAAAATAAT GGCAATAATT ATCAAACCTT TAAAATAGN TGCTCATATT 360
TTTAAAAATA AGGTTTTTAA 380

```

## (2) INFORMATION FOR SEQ ID NO: 949:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 399  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single



(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01081

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 949:

```
GATCAAAGCA TGCAATAAGC AATACAAAAT ACCAAGCCTT ATACTTAAAA GAAGTTTAAC 60
ATATTGGTTA ATATACTGGT TAATATACTG GTTAAACATA TTGAATGTAT ATAAGTGGCA 120
AAACTAGATT TTTAAGGAAG TGTACATTAT AATATTGGAG CTCAGTACTG CATGANGAGA 180
CTTCATTAAA ACTAAGAAAN CATTATTTTG GGGAGAAATT TTAGGCATTT AAGANCTTGT 240
ATTTTTCTAT TTTAAAAAGT TAAATTATTC CGTAATTTGG ANGGAAAGTTT CGTTGAATGT 300
AGGCCATAAC CGTTTGANGG GTTTTCCTTT GGANAACCTG GTGTNTTTNG GTGCCCTTAN 360
TATTTTGGTC CTTTAAATAA AAATGCNCCT GNATTTTCN 399
```

(2) INFORMATION FOR SEQ ID NO: 950:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 379

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01082

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 950:

```
GATCAGGCCC TGGGCCCCC TGCATCTTTT ATAGCAGTGG GTGTCCAGTC CAGGACACTG 60
GTGCTTTTTT ATACAAGAGA ACGAGCCAGA GTTCACTCCT TCCTCCTGGC TCTCTATATA 120
CCTGTGAATA TGTGAAATAG TGTAATATG AAAGAACTTG TACCTATCAC TTCAACCCCT 180
GCCTTGTACA TAATACTATT CCATCCACAC AGTTTCCACC CTCACCTGCC CCNTCATACG 240
GAGTTGGATG GGGGCCGAGT NAGGTAACCA GGTGGCATCT ACCNNATGTT TTATAAGGAA 300
TTTTGTACAG TCTTNGTGAA ATAAAATAAC GTGCTTCATT TGNAAAAATN NNGTTNNNTT 360
TNTNTTTNNT NGNGGGTTN 379
```

(2) INFORMATION FOR SEQ ID NO: 951:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 376

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01083

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 951:

```
GATCTAGTAG AACTAAGGG ATGGGAAAAA CCTTTTCATT TTTCATCTNC TTTCCAACAA 60
TATGAATTC TTAGTTTTCA AACTATACTC AGGAAAGCTG GGCTTTAGGA TTTAACATGT 120
AGTGATGAGT TCTGTGTGTA TTTTAATATT TNACTCAGGA TTCCTATTAA TTGAAAAAAA 180
TTTTTAACCT TTTTATTATA AATCTTTTTT TCAGGGAGGN GATATCACCA AACATGATGG 240
AACAGGCGGA CAGTCCATTT ATGGAGACAA ATTTGANGAT GAAAATTTTG ATGTGAACAT 300
ACTGGTCTG GTTTACTATC CATGGCCANT CAAGGCCAGG ATTACCAATA ATTCNTCATT 360
TTGTTTATAC CACTGN 376
```

(2) INFORMATION FOR SEQ ID NO: 952:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 375
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS01084
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 952:

```
GATCAAGCCA CCACGTGCCC TACGATGGCC TAACAGGAGT GCCCATTGGC AGATTACACA 60
TGTAATATG ACCTCAGACA AAAAGGAACC AGAGGCCCAA GGGCAATAAT AAGGTGGAAT 120
TTNCAGGTCA GCCCAGGAAT TGGCAGAGGA AGTAGGTGTC TGATAACCTT TTGTGGAGAA 180
TGAGATTCCC CCCACCTGTG TGAGAAAAAT AAACAGCTCT GGAGTCTTGT NCCTGACTCC 240
AGAGGAACGA GAGCATTCCA GGAAAGAGAG ATTCCCTGGA AAATTGAAAA TGTGAATCCT 300
AGGGGGAAAT TGGGGATTGT NTCTTTCCCT GTTGAAAATG TTTNGNTGGG AATAAATATC 360
TTCAGGAACC ATAAA 375
```

(2) INFORMATION FOR SEQ ID NO: 953:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 374
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS01085
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 953:

```
GATCTTCTNC ACACACCCCA TCACCCAGAT AATTTACAGT TCTGTTAACA GTGAGGTTGA 60
TAAAGTATTA CTGATAAAAA ATTATCTAAG GAAAAAACA GAAAATTATT TGGTGTGGCC 120
ATCTTACCTG CTTATGTCTC CTACACAAAG CTAAATATTC TAGCAGTGAT GTAATGAAAA 180
ATTACATCTT ACTGTTGATA TATGTATGCN CTGGTACACA GATGTCATTT TNGTTGGTCA 240
CAGCACTACA GTGAAATACA CAAAAATGA AATTCATATA ATGACTTAAA TGTATTATAT 300
GTTAGANTTG ACAACATAAA CTACTGTNGC TTNGAAATGA TGTATGCTTC AGTAAAATCA 360
TATTCAAATN TAAA 374
```

(2) INFORMATION FOR SEQ ID NO: 954:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 376
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS01086
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 954:

```
GATCAAAGCA AAGAGCGCCT TTCCATGTAT CTCATGAAAG CTGACCTGAT GCCTTTCCTG 60
TATTGGAATA TNATGCTAAG GGGTTACTGG GGAGGACCAG CGTTTCTNCG CAAGTTGTTT 120
CATCTAGGNA TGAGTTAAGN ATGGCTCAGC ACTTGCTCAT CTTGGATGGC TTCTGGGCCA 180
AAACTGCACT CACTGAATGA CCAAGAGCAG CACGAAGGAC TTGGAACCTA TCCTTGTAAT 240
GAGTTCCCTT ATGGGTAAAT GTGACCAAAT GCCTCCCTTT TCAGTACCTT TGAACAGCAA 300
CCATGTGGGC TACTCATGAT GGGCTTGATT CTTTGGGAAT ANTAAATTGA AATANTACTT 360
TTNTTTTCTG AATAAA 376
```

## (2) INFORMATION FOR SEQ ID NO: 955:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 371
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01087

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 955:

```
GATCAGAAACC TCCAAATACT GCCATGAGAA ACTAGAGGGC AGGTCTTCAT AAAAGCCCTT 60
TGAACCCCCT TCCTGCCCTG TGTTAGGAGA TAGGGATATT GGCCCCCTCAC TGCAGCTGCC 120
AGCACTTGGT CAGTCACTCT CAGCCATAGC ACTTTGTTCA CTGTCCTGTG TCAGAGCACT 180
GAGCTCCACC CTTTCTGAG AGTTATTACA GCCAGAAAGT GTGGGCTGAA GATGGTTGGT 240
TTCATGTTTT TGTATTATGT ATCTTTTTGT ATGGTAAAGA CTATATTNG TACTTAACCA 300
GATATATTTT TACCCAGAT GGGGATATTC TTTGTAAAAA ATGAAAATNA NAGGTTTTTT 360
NAAANTGGNAA A 371
```

## (2) INFORMATION FOR SEQ ID NO: 956:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 368
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01088

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 956:

```
GATCTGGGGA GGGCTAGCCC AAAACCTCCC GCATCGGGCA GGCACCCCCT GAAGTACTTC 60
CTTCAGGGTT TCCCCTTTGT NAGGGTGTGCG AGTAGCCTCA CCGGCCTGTN TGGAGGAGCA 120
GCTGGCTCTG CTCTGAGAAA CTCTGGCAAG TGGACGCCAT TCTNTTGCCC TTAGGATTCA 180
CTGCTCTCTC CTACAGCCGC CAGNCCTGGG GTCCTGAAAG ACCTTGGGTG GTAAAGCTGT 240
ACTTGGTGGG AGTNAGGGCG TGGGGAGGAA CCATGCAAAT CGCCTTCAT GGGTTTTTAA 300
NTGCAGTAAA TAACATTTCT GGATGAGACT NGTTTCCAAA NTAAACCNNG CTATTATCTG 360
TTTTGAAA 368
```

## (2) INFORMATION FOR SEQ ID NO: 957:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 369
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01089

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 957:

```
GATCCGAGCT CTGGAGCGTG GATACCGGAT GTCTCGCCCA GAGAACTGCC CAGAGGAGCT 60
CTACAACATC ATGATGCGCT GCTGGAAAAA CCGTCCGGAG GAGCGGCCGA CCTTCGAATA 120
CATCCAGAGT GTGCTGGATG ACTTCTACAC GGCCACAGAG AGCCAGTACC AACAGCAGCC 180
ATGATAGGGA GGACCAGGGC AGGGCCAGGG GGTGCCCAGG TGGTGGCTGC AAGGTGGCTC 240
```

CAGCACCATN CGCCAGGGCC CACAACNCGN TTTNCTACTT TCCNAGACAA CNACCNTCGG 300  
 TTTTCAGGCCA CAGTTTTCTT CATCTGTCCA GTTGGGGTAG GTTTGGGACT TGGNAAAATN 360  
 TTTTTTTTN 369

(2) INFORMATION FOR SEQ ID NO: 958:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 366
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01090

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 958:

GATCGAGCCA CTGCACTCCT GGGGCAACAG AGCAAGACTT CGTCTCAAAA TAAATAAATA 60  
 AATAAAGTGG CTCTTGGGGA AAAGCAATTT AATGTACCAC GATGAATAGC TAACTGTTCC 120  
 CAAGTGTTTG CTATGTGCAA CACACCGCGT GAGAGTGTTA CCTGCATTAT TACATTAGGC 180  
 TGAGAGGTAA AATAATTTGC CCGAAGACAT ACAGCTAGTG ACGAATGGAC TGATGGTTTG 240  
 AACTTAACGT CTATTTGACT TAAGGTCCTG CACCCTGCCA CTTGTAATTT TCAGANTCAC 300  
 TGATAATCTG AAATAATGCA GCTTAAACCA TGTTTTCTTA ATTAAAAGTA TAATTGGATG 360  
 GTGAAA 366

(2) INFORMATION FOR SEQ ID NO: 959:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 364
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01091

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 959:

GATCCTGAAG GTGAAATGAA ACCAGGAAGA AAAGGTATTT CTTTAAATCC AGAACAATGG 60  
 AGCCAGCTGA AGGAACAGAT TTCTGACATT GATGATGCAG TAAGAAAAC TAAAAATTCG 120  
 AGCCATATAA ATAAACCTG TACTGNTCTA GTTGTTTTAA TCTGTCTTTT TACATTGGCT 180  
 TTTGTTTTCT AAATGTTCTC CAAGCTATTG TATGTTTGGA TTGCAGAAGA ATTTGTAAGA 240  
 TGAATACTTN CCTTTAATGT GCATTATTAA AAATATTGAG TGAAGCTAAT TGTCAACTTT 300  
 ATTAAGGATT ACTTTGTCTG CCCACCACCT AGTGTAAT AAANTCAAGT AATACANTCT 360  
 TAAA 364

(2) INFORMATION FOR SEQ ID NO: 960:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 364
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01092

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 960:

GATCTGGGGC CGNCCTTACG GGGCAGGGCT CAGTCCTGAC GCTTGCCACC TGCTCCTACC 60

```

CGGCCAGGAT GGCTGAGGGC GGAGTCTATT TTACGCGTCG CCCAATGACA GGACCTGGAA 120
TGTACTGGCT GGGGTAGGCC TCANTNAGTC GGCCGGTCAG GGCCCGCAGC CTCGCCCCAT 180
CCACTCCGGT GCCTCCATTT AGCTGGCCAA TCAGCCCAGG AGGGGCAGGT TNCCCGGGGC 240
CGGCGCTAGG NTTTGCAC TA GTTTCCTNT CCCNGCGGGT GGGNGCGGGG AAATTCATAT 300
CCCCTGTTTC GTNTNATGTT GTGTCNNCG NNCCCAAATT TAAAAAGGNA ATTTNAAAAAN 360
GGTN 364

```

## (2) INFORMATION FOR SEQ ID NO: 961:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 362
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01093

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 961:

```

GATCGAGGGG CGGGGGTCAG CTATGCAGCC CATCACGTGT GTTTTTCATC TGGGATGAAA 60
AAGCCTGGTT CTCTTTTGAA ATGCTTGATT GTACTTATTG AGCTAAACAA GNCTTGGTGA 120
CTNTTGTTGA TTTGCCTCAA AAGTTTTAAG TCCTGGGTTT TCAGACTACT GTGTAGCAGC 180
TGTGTGTTTA ACATACTGTA GCTTTTTCTC CCTTGGGGGC ACATACAAAT AGGATGTGTT 240
GATGTGGACT CTAAACTGTA ATTTTCCTGT AACTATTTTG GAATGATGCA TATTTCTAAT 300
GTTTGTATA CTTGTACAGA GTATTTGCTG TTGGTTGCTT TTTTTTTTNN TTCANNGGGA 360
AA 362

```

## (2) INFORMATION FOR SEQ ID NO: 962:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 360
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01094

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 962:

```

GATCCAGGCC AAGGCACTGG CTGTNAGTGG CAGAGTTTGG CTGTAACCTT TGCCCCCTAAC 60
ACGAGGAACT CGTTTNAAGG GGGCAGCGTA GATTGTNTNA TTTGCCACCT GGATGAAGGC 120
AGACATCAAC ATGGGTCAGC ACGTTNAGTT ACGGGAGTGG GAAATTACAT GAGGCCTGGN 180
CCTCTNCTTT CCAAGCTGT GCGTTCCTGGA CCAGCTACTG ANTTATTAAT CTCACCTAGC 240
GAAAGTNACG GATGAGCAGT AAGTAAGTAA GTNTGGGGNT TTAAACTTGA GGGGTTCCCT 300
CCTGACTAGC CTNTNTTACA GGANTTGTGG NAATATTAAN TGCAAATTTA CAACTGCAAA 360

```

## (2) INFORMATION FOR SEQ ID NO: 963:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 358
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01095

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 963:

GATCCAATTT GTAGCTTCCT GCCTGGCTTC AGAGAGCCCA GCAACCTTCT AGGCCTGCTT 60  
 TCCAGACTTC TGAGATAGCC TGGGATGAGC AATCCTGTTA TAGTACATCT GGACCTTCCC 120  
 TACCTGGGCT CTGGGGAGGC TGTGGGCCTG GAGAGGGAAA AGGAGGGAGG GGGTGTCTGC 180  
 ACCACCTGGG AAGATAGCAC AAGGCCTAAT GAGGTCACCC TGA CTCCCCA CCCCAGCATT 240  
 TCATTCATAC CAGATAATAG CTGCATTACT GCCANCTGAC CTTATAACCC TCTGCACCTT 300  
 CAAAAAGGTT CATGGTTTTT AATTGCTGCT TTTTAATAAC ATTTTGTNA AGNTTAAA 358

## (2) INFORMATION FOR SEQ ID NO: 964:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 195  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01096

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 964:

GATCGGCCCT ACTAAGATGC AGAGACCCCG NCAGAGCTNG CATTGACTAC CAGATTTATT 60  
 TTTNAAACCA GAAAATNTTT TAAATTTATA ATTCCATATT TATAATGTTG GCCACAACAT 120  
 TATGATTATT CCTTGTCTGT ACTTTAGTAT TTTTNACCAT TTGTGAAGAA ACATTAAAAC 180  
 AAGTTAAATG GTAAA 195

## (2) INFORMATION FOR SEQ ID NO: 965:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 356  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01097

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 965:

GATCCAAGAC TGGCTGACTT CATTTGAAAT GGTGAATCT GCTGTGTAAT AAAGTGGTTC 60  
 AACCATGATT AGGAAGTGA AATTTAGTAGA AGAGGGAAAA GGAGTTAATG TAACAAATTA 120  
 TTTTAGCTAC AAACCCCGGT AATAGAGCAC TTGGGGGATG GGATGGGGTG GGTGTTGAG 180  
 ACAATCAGAA TGGTAAATTG ATTAAATGCT CCTAACCTG TAATTTTGTG CATAGAGCAC 240  
 CCTATGCTGT GGAAATAACT GTTCTTAGAT TTCATTGTAA CTGGACTGTT CAGGTTGCCC 300  
 AGAGGGAAAG ACCATTCTTA ATTCTAATAA AATAACCTTT TATTTTGTTA TTCAA 356

## (2) INFORMATION FOR SEQ ID NO: 966:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 356  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01098

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 966:

GATCTCCACC ACCATCTCCC CTCTACTTCT CATTCCTTAA CTCTCTGCTG AATATGGGGT 60

TGGTGTTCCTC ATCTAATCAA TACCTACAAG TCATCATAAT TCAGCTCTTG AGAGCATNCT 120  
 GCTCTNCTTT AGATGGCTGT AAATCTATTG GCCATCTGGG CTTACACAGCT TGAGTTAACC 180  
 TTGCTTTTCC GGAACAAAA TGATGTCATG TCAGCTCCGN CCCTTGAACA TGACCGTGGC 240  
 CCCAAATTTG CTATTCCCGT GCATTTTGTG TGTTCCTTCA CTTATCCTGT TCTCTGAAGA 300  
 TGTTTTGTGA CCAGGTTTGT GNTTCTTAA AATAAAATGC AGNGACATGT TTAA 356

(2) INFORMATION FOR SEQ ID NO: 967:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 356  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01099

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 967:

GATCTTCCAC AAAACATCTA GCCATCTAAA ATGGAGAGAT GAATCATTCT ACCTATACAA 60  
 ACAAGCTAGC TATTAGAGGG TGGTTGGGGT ATGCTACTCA TAAGATTTC GGTGTCTTC 120  
 CAACTGAAAT CTCAATGTTT TCAGTACGAA AAACCTGAAA TCACATGCCT ATGTAAGGAA 180  
 AGTGCTATTTC ACCCAGTAAA CCAAAAAAAG CAAATGGATA ATGCTGGCCA TTTGCCTTN 240  
 CTGACATTTC CTTGGGAATC TGCAAGAACC TCCCCTTTCC CTTCCCCCAN TAGGNCCATT 300  
 TAAGTGTGTG TTAAACANCT ACAGNATACT ANNTAANAAG TTTGGCCAAN NCCAA 356

(2) INFORMATION FOR SEQ ID NO: 968:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 356  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01100

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 968:

GATCAGATTT TTGGGTCATG TCTGTTGTAT TTTAGTAAT GTGATTTTCTC ATGGTTCATCT 60  
 GGATTCTCCC ACTTCTCTAC TCCATTATTT CTCTACTTTT CCTTCCAGCA NACCTGANNC 120  
 GTGAGGGAGA TGGATTAATG TGAGTAACAG GAATGTGTCT TTAAAAAGCT AGAGTGGTTA 180  
 CATTTAATCA GGCAGTAAGA TAATTTGGGT TCTTGAGTTG TTTTGGNGTA ATATCCCACA 240  
 ACTGGGGTAG GAAGCTCAGG ACTTTTTTNT TTAAAGCTAG TCATTTCAAA AGCATATTGT 300  
 ATTTTTTTGA NTGACTACAG TATGCCCAAN TTCAANANCC AAANCCCNCT TTGGGN 356

(2) INFORMATION FOR SEQ ID NO: 969:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 356  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01101

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 969:

GATCCAACAA TTTTNAAGAG CTCTCTCTTA ATCTCTGACA TAATGAGTCT GAAACAAAGA 60

AAAGTTACCT TACCGTGTCT TTA CTTTCTGGGC TGTGAACTCA AGTGCCTTGA 120  
 GGGCCAGCTA AGAGCTTTTT GGGATATTTG TCTAACTTAA TTGAACTGTT ACTGAAAGAT 180  
 AAATTAACAA AATGGTTTCAG AGTTTTGGAT TAAGACCTTT GTAACCTAACT GACCGTCAGC 240  
 ACAGGAGCTT CGGTTTCCTT CTCTGTAAAA CAGGGCTCCT CATTCCAATT CCACCTATCC 300  
 TGTAGCCTTG TGGGAATAAA AGGAGGCACC ACGTGGAGGT GCTTGGCAGG NTGAAA 356

(2) INFORMATION FOR SEQ ID NO: 970:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 355
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01102

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 970:

GATCATANAA NGGCCATCTG GGCCAGCTN GTGTACAGCG AGGGNGGGCA GCCCCCTCCA 60  
 CTCCACTCTG CTTCCACAAA GTCGGCTCCC GAGAGCTCGA GGCTGCTTCT TTTTATATGT 120  
 GCAGGGCCCG GCGGGGTGAA GGGTCAGAGA GACGGACACA AGGAGCCGGC AGGAGNGCGG 180  
 ANCGAGGATG TCCTTTCCCG GGAGACAAGT CGGGAAAGCC TGGCTGGACT GCCTCAGCCC 240  
 CGNGTGANTC CTGGNCTNAA GGNTTCCCCG TCCTGAGCTC GGGAGATNTT CAGAGTCACA 300  
 CTGNCGNCTT GTCTTGCCAC GGAGAGGTCA ACTTGCCACC GGNAGTNCNT GGTAN 355

(2) INFORMATION FOR SEQ ID NO: 971:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 355
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01103

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 971:

GATCCAAACA ATATCTTCAA GGCATTCTTT GCGGTCTCTG GCGGCTTCAN CTTTGANGCA 60  
 TCTGGTCCAG GGAATTNNTT TTTNCAATTT GGCTAATGAA GGGCAACCAC CCAGAACCCA 120  
 GAAAATNCAG ATTCACTCAG TTTAATCTTG AATGTGGAAA CAGTTCACCT CCTCCCTTCA 180  
 TCACGTCTCC GTGTGCTTAG AGCAGTTTCG TTTTCTCAGT TGGATGCCCT GTGTCTCTGT 240  
 GAGTGGGGTG GAGCAAAGGG AACCAATGCC GAAGACCGAG GGCAGGGGAG GGGAGGCGGG 300  
 GGTNGGACAG NGAGGCAGCT TGTGAATTTT TGTTTTACTG TTTAACTTTA TTAAA 355

(2) INFORMATION FOR SEQ ID NO: 972:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 352
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01104

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 972:

GATCNTAGGC TGGGGCCAAC TGAACCAT TGGCAGCTGCA CGCTCATTAC TACCCTCCGC 60



```

TCCTGCGCTC TGCCACTGTC CGGAAATTCA TGGTTGGCTA CGAAATGCTT GCTCAGGCTC 120
AGAGGGACCT CACCCCTGAG CAGGCTGCAG AGAGACTAAG GGCACCTTCTT GAGGTTTCATT 180
ACCACCTGGG GCAGAAGGAC AGGGAGACAG CAACCATCGC CTGACCACGC CGACCACAGG 240
GCCTTGAATC CTTTTTTGTT TTCAACAGTC TTGCTGAATT AAGCAGAAAAG GGCCTTGAAT 300
CCTGGCCTGG AATTTGGGCA GATATAGCAT TAATAAAACT GTGCATCTCA AA 352

```

## (2) INFORMATION FOR SEQ ID NO: 973:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 358
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01105

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 973:

```

GATCAAGGGG GTTGGGAGGG GGGAAAGAGA CCAGCCTTGG TCCCTAAGCC TCCACNNAAC 60
GTCTTCTTAA TCCNCACCTT TTCTTACTCC CAAAAAAGAA TGAACACCCC TGACTCTGGA 120
GTGGTGTATA CTGCCACATC AGTGTGTTGAG TCAGTCCCCA GAGGAGAGGG GAACCTCCT 180
CCATCTTTTT TGCAACATCT CATTCTNCC TTTTGCTGTT GCTTCCNCN TCACACACTT 240
GGTTTTGTTT TATCCTACAT TTGAGATTTT TAATTTTATG TTGAACTTGC TGCTTTTNTT 300
TCATATTNGA AAAGATGACA TCGGCCCCAA GNGCCAAAA NTAAATGGG ANTTGAAA 358

```

## (2) INFORMATION FOR SEQ ID NO: 974:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 354
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01106

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 974:

```

GATCTTAGGC AAAATACCAG NTGATGAAGG CATCTGATGC CTTTATCTGT TCAGTCATCT 60
CCAAAAACAG TAAAAATAAC CACTTTTTGT TGGGCAATAT GAAATTNTTA AAGGAGTAGA 120
ATACCAAATG ATAGAAACAG ACTGCCTGAA TTGAGAATTT TGATTCTTA AAGTGTGTTT 180
CTTTCTAAAT TGCTGTTTCT TAATTTGATT AATTTAATTC ATGTATTATG ATTAAATCTG 240
AGGCAGATGA GCTTACAAGT ATTGAAATAA TTACTAATTA ATCACAAATG TGAAGGTTAT 300
GCATGATNGT AAAAAATACA AACATTCTAA ATTAAAGGCT TTTGCAACCA CAAA 354

```

## (2) INFORMATION FOR SEQ ID NO: 975:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 351
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01107

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 975:

```

GATCAGAGCT TGAACACAGG CTTATTTTAA AAANNANAAA TATTTTAAAC ATGGGTTTCC 60

```

```

TTATTGAAAA ATCAGTGTAT TAGTCATAAA ACACCATCAT TAAGAATAAT TGAACAATAA 120
AGTTTGCTTT CAGATGCAGT TTTCAAATTA TAATCTCATT TCAATTTATA ACGTTCTCAG 180
TCCTTTGTTA TAATTTTCCT TTTTCATGTA AGTTTAATTA TCTGCATTTA TCTTTTTTCC 240
TAGTTTTTCT AATACTAATG TTATTTCTTA AAATTCAGTG AGATATAGGG NTAAAAATAAT 300
GCTTTGAGGA GNATGTTTAA TAGGAAATTA AAATAACTTT TTCTGGCCAA A 351

```

(2) INFORMATION FOR SEQ ID NO: 976:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 420
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01108

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 976:

```

GATCCAGAAC ACTTCAAGAA CTCGTCAAAC AGCTCGATAA GCCTTTTTNA CTGTNTACAT 60
CTGTACCGGG AATAACATTC CTAGGCTGAA ATTTCCACAA AGAATAGAAC CTGTACCCAG 120
TTCTTCAGGC TGATTTCCCT GACCTCTTGG GCATTTGTAT TTGTAGTAAA GTATTGCAGA 180
GATTCCTAAG TTTTTTATAG CAGCCATCAA ATTTGGACTT TGTATTGTTT ATTCATAAAA 240
GACACTTGGT AATAGACTTC AGTGAACCTCT GTATGAATGC AGTAGTGTGC GTGCAAAATC 300
CGCTTCCTGA GCGTAGGGTG CTGAGCTGGC GCTAGGGCTC GGTTGTTGAA ATACAGCGTA 360
GGTCAGCCCT TGCCTNAGT GTAGAAACCC ACGGTCTTTA AGGTTCTGGC CTTGGTCCAN 420

```

(2) INFORMATION FOR SEQ ID NO: 977:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 349
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01109

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 977:

```

GATCCTCATG TACTCAGAGG CACTTCCCTC CTAAGTCAAA GACCATCCTC ACTGACTATG 60
TGCCAACGCC TCGTTTCAGG CTTGTNACTC AACAAAGGGC TTTTCCATTG ATAGAAGCAG 120
TTTGGGATTT GTAGTTGCGA CTTCTTCGAT AGTTACCTGC ACGTCCATTG CTGGCAACTG 180
ACTTGTCATT AAAACCTGGC TCTTTGGTTA AGGGAGCTAC GCTGTGGTTT ATTCTTAAGT 240
TACGTGGATA AACTAACCTC TAACAGAAAT ATACTTTGGT TAATTTTGAA ATGTGTCATT 300
TTTAAACAAT CTTAAAAGTA ATACAGAATT GTGATTTATT AATTTTAAA 349

```

(2) INFORMATION FOR SEQ ID NO: 978:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 349
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01110

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 978:

```

GATCAGAGTG GGTAAAGCTG ACCAGGAACA CCCATTTAAC CCCTTTTNCT TTTTGCTTTC 60
ATTTTTATAA AGGAAAAGAG GACCTGTCAG ATAGGCAGCC CCATGCTACG TGATTCTTTA 120
TGTTGTGTTG TTTTGTTTTG TAAATTGTAT AATTTTTTAA TATCTGAGTT TAAAAAAAG 180
AAAAAAGTAC AAAAAAATCT TGTTATGGCC TTAAGAAGGG NNTAGTGCAT CTTTCAGGGG 240
TCACTCTGCC ATGGGGATAA AATAGCTGTT TCACAAACAG TTTTATTTAA AAAANCAANN 300
ACCANNAAAN ANTCAAAATN TCATGNAANN TMTTNAACCT TCATTTTNN 349

```

## (2) INFORMATION FOR SEQ ID NO: 979:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 345
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01111

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 979:

```

GATCACGTGG GTGTCAGTAT CTTTAACGGC CTTTATTCTT GGTGTNAGA TTTTATTTGA 60
TATGCCCACT CACCCTCGAC GAATCTGCCC GCTTTGGGCT GTGGTGCCTG TGTATCTTTG 120
CCCGTCTGGT CTCCAGTTGG TGGAATNACC TTTTGTGTAC TGCCACTTCT CAGCATCTTT 180
NAAATTTGAC ATAATGTTGC TTCATTTTCT TTTTAAAGT TCTGTAATTT GTTGATTGTA 240
TTTAACTATG TNAGTTCTGT TGTNATGTTT ACTGTATTGT AAAGCACCTC ATTCATGTNA 300
TGAGTGCTCT ATAAATCAAT AAATGATGAC TTAGAGGGCT GTAAA 345

```

## (2) INFORMATION FOR SEQ ID NO: 980:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 344
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01112

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 980:

```

GATCTGCTTG GNGTTTTCTN CCCCCACCC CAAACTTCTG TCGAGGAGCA AGGCTTGCCA 60
GCAAGTCAGA AGGATTTGAA CCGAGCAGCC AATCTTTCCA GCCCTCCNT ACCGACCTCT 120
GTCTGGAGAC GCAGCAGCCT GTGTCCTCCA GGGCCTCTGG TTTGTNGTAT TATAGTATAT 180
TTNGCTGTGG AAAATGTCAC GTTTAGTCAC CTTGGAGCCA CTCACCTGGT CCTGTTGTTT 240
TANCCCATCC CTTCTNNGN GGGCTATTGA TTTNTTCTNA GGAGAGTACA NCGTCACTAT 300
TGTAGNGTAA CCCTGTACTC AATATTACCA TAGNNGCNTG NCGN 344

```

## (2) INFORMATION FOR SEQ ID NO: 981:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 357
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01115

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 981:

GATCAGAAAC CAACCATGAA TGAACCCCTG GCTCCTTCAC CACCCCCACG ATTGGTATGA 60  
 TGCTGCCGGC ACAGNTGGGA TACACACGGC TCCCCCAGGC CTGAGCTGCT TCACTAGGGA 120  
 ATCCTGCCAC CACCCTGTCT TCCTCTGCAA GTGCTCAGGG AAATGGCCTT NCCGCCGGAG 180  
 NCATNCTATC TGNCTGACAG GCTGTGACTC TTCTCTCAAC CTTGGCCTTC TCCCCTCTTC 240  
 TGAGCTAGTT GGTGAATNN NNGTTAATGC TTAAGATTG TTTTCTCTT TTCACAGCAA 300  
 CATTTTCTTG AATTTTTTTC TGCACAGCTT TTCCAAAATA AAAACCTTCC AAACAAA 357

(2) INFORMATION FOR SEQ ID NO: 982:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 340
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01116

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 982:

GATCAGAAAT AAGATTGACT TGGGTGTTAT ATTTTCATCTC TCTCCAGACT CTAGGTATAT 60  
 TTCCAACCTTT ATATATCACA GTATTTAAAA AGACATGTTT GCATTGAGAA ATTAACCCTA 120  
 AAGGGTTTTTC AATAGGGTGT AGACCTCCAG TACCTTTGTA ACTAAAGTCT GTCTAGTCAT 180  
 NGTAAATATT TATCTGTCAG TTTTGACAGA TTGGGGCCAG CTTGATGTTT TAAATCTTCA 240  
 GCCCGGTATG AAAACTTAAA GGTATATATT CANTTTTTTA CCATTTTATG GAAAATATTT 300  
 AAAATCTGTT TTTACAGGGT TTTTTTTTTT TTTTTTTTTN 340

(2) INFORMATION FOR SEQ ID NO: 983:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 340
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01117

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 983:

GATCTGGTTC GGCTGCTGTC GGATGAGGAC GTAGCGCTCA TGGTGCGGCA GGCTCGTGGC 60  
 CTCCCCCTCCC AGAAGCGCCT CTTCCCCCTGG AAGCTGCACA TCACGCAGAA GGACAACCTAC 120  
 AGGGTCTACA ACACGATGCC ATGAGCTGAC GGTGTCCCTG GAGCAGTGAG GGGACACCAG 180  
 CAAAAACCTT CAGCTCTCAG AGGAGATTGG GACCAGGAAA ACCTGGGAGG ATGGGCAGAC 240  
 TTCTGTNTT TGAGGCTAAT GGACCCGTGG GGCTTGTAAT CTGTCTCTTT CTACTATTTA 300  
 CATCTGATTT AAATAAACCA TTCCATCTGA AAGGGGCAAA 340

(2) INFORMATION FOR SEQ ID NO: 984:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 339
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01118

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 984:

```

GATCTATGTA TTATTAGAAA AATGAAGTAT TTCTGACATG GAACAAAGAA AGTGGAAACT 60
GGTACTTAAT GGGGGAAGCA AAATTAGCTG GGAATAAAAC GGACATGTTT TGTTTTGTGA 120
ATTCTACCTA AATGTCTCTC TATCCACAGA GAAACTAGTA TTACTTGAAG ATGTGAAAGT 180
TCCTGTGGTA GCCATACCTT GAAGCACAGT GTTTGTACAT AAGTAAATAT CTTGATTCTA 240
AATTAAATCC AGATTTATCT AATATATATN ATTTNATATC TTTGTTGTAT TAAANTGGTT 300
TAATANTCAC TANAANTANN ACATTTTGNA TGTGGAAG 339

```

## (2) INFORMATION FOR SEQ ID NO: 985:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 339
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01119

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 985:

```

GATCTCAGGA ATTTTGTAG GGGATTGAAG CCAGANCTAG TTGCGTCCCA GGGACCAAGA 60
GAAAGAAGCA GATATCCAAA GGGTGCAGCC CCTTTTGAAG GGGGTGTTTA CGAGCAGCTG 120
TGAGTNAGGG GACAAGGGGC AGGTCCCAGG AGCCACACAC TCCCTTCCTC ACTTTGGACT 180
GCTGCTTCTN TTAGCTCCTC TGCCTCTGAA AAGCTGCTCG GGGTTTTTNA TTTATAAAAC 240
CTCTCCCCAC CCNCCACCCN CCAACTTCCT GGGTTTTCTC ATTGTCTTTT TGCATCAGTA 300
CTTTGTATTG GGATATTAAA GAGATTTAAC TTGGGTAAA 339

```

## (2) INFORMATION FOR SEQ ID NO: 986:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 339
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01120

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 986:

```

GATCCTTTCC GACACACATG TCTGAAGACT TATTTTCAAA GNCAGCACAT TTTTGGAAAC 60
TAATCTCTTT TCCGTAATAT TTCCTTTATT TCAATGATTC TCAGAAGGCC AATTCAAACA 120
AACCACATT TAAGTTCTT TAGGATTATA GAATAAATTG GCTTCTGAGT GTTAGCTCAG 180
TGAGCTAGGA AAGCACCAAT CGATATTTGT TTCCTTTAGG GATACTTTGT TCTCACCAGT 240
GTCCCTATGT CATCAAATTT GGGAGAGATT TTTTAAATA CCACAATCAT TTGAAGAAAT 300
GTATAAATAA ANTCTACTTT GAGGACTTTA CCAAGTAAA 339

```

## (2) INFORMATION FOR SEQ ID NO: 987:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 337
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01122

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 987:

```

GATCCAAAGT GTTAAAAATG CTGAAGTCAT GTCAAGTACT GTCTGGAGGG TTTTTTTAAG 60
AAAAGGCATT TGGCATTTAA CTGTCTCTTG TTTTATTTTT AAGTTTTTGG AAACCTTTTG 120
ACATAAAATG CTGCCAAGTA TCTAAGAAAT GTATATACTG ACAGAAGATA TTTGAAAGTG 180
GAAAATTGGA AATGAAATAT GTTGCTGGGN GCGTTAATCA CCTCCGCCCA GGATTTAGTC 240
ACTTGACAGGA CCTCTTTATA GTCTAGGATG GCAGAGCAGA AGATTTTAAT ATGCTTTTAT 300
TAAGTGATGT AAAATAAATG CTTTTTGAT TATCAAA 337

```

## (2) INFORMATION FOR SEQ ID NO: 988:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 371
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01123

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 988:

```

GATCGGCCAG CCCCCACCTA CAGCAACATG GAGGAGGTGG ATTAGCAGGT CCCTGGCTGA 60
TGGGGGGGAC TGGGTTTGGG ACACCCACAC AGNGGGCCAG CTCCTTGCCG CTTCTCCTTC 120
TCTAACCAG AGGACACTGG CTCTGTCAGT GGAAGCTGA GGGGTATGAT TTGGGTGTGG 180
AGACCTCTCA GGTGGGACT TCTGTGTCAG TTGGACCCCT GACCAGTGGG CTTTGGCTTC 240
TCCAGCCGCC TCCAGTGCTG CGTGATTGA TTCTGTTGTA CCTTCAATTC TTCTGACCCG 300
CATTATAAAC ATTATAATTN NATTTCTAAA ATTGTAATTT TTTTGCAAT TTTGGAAGTG 360
ACTGCTGCTG N 371

```

## (2) INFORMATION FOR SEQ ID NO: 989:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 334
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01126

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 989:

```

GATCTTCTTT ATATTCTACT TGAGTGCTGT CTCCATGTTG ATGTATCTNA GCAGGTTGTC 60
CACAGGTAAGT CTAGGAGGGT GGCAACTTAG AGGTGGGGAG AGAGATTCTC TTATCCAACA 120
TCAACATCTT GGCAGATTTG ACTCTCAATC TCTTCACTAA AGTTGTTAAG NTCNNCCGGT 180
GATAAGTACT TCAATTTCAA CTTGTAGNNT GGGGAAATTT AGAATTATGC AGNTTATGGA 240
ATTGTATATG ATGACATTTG CAATAGGTCT ATTCTCTATC ATTGTAAGAA GNTGTGTGTA 300
CTGGTATTTG NCCCAAGTAA TAANCTAACT GAAA 334

```

## (2) INFORMATION FOR SEQ ID NO: 990:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 333
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01127

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 990:

```

GATCTGNCGT GCCCACCAC TGGTGATGGA AGGTTACAAG TGGCACTTCA ATGAGACGGT 60
GCTCACTGTG TGGTCGGCAC CCAACNACTG CTACCGCTGT GGGCGTGTGG CAGCCATCTT 120
GGAGCTGGAC GCGCATCTCC AGAAAGATTT CATCATCTTT NAGGCTGCTC CCAAGAGAC 180
ACGGGGCATC CCCTCCAAGA AGCCCGTGGC CGACTACTTC CTGTGACCCC GCCCGGCCCC 240
TGCCNNTTNC AACCTTCTG GCCCTCGCAC CACTGTGACT CTGNCATCTT CCTNAGACGN 300
AGGNTGGGCG TGGGNGGGNN TGTNCTGGNT NTN 333

```

## (2) INFORMATION FOR SEQ ID NO: 991:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 329
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01128

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 991:

```

GATCGGACTG AACAGGAATC CTCGGGGGGT GAACAGCCAT TCCTTCGTGA CCTGTGCACG 60
NCTTCTGCAA CCCTGGAGCT CTGCTCGGCT AGTCTGACTC GAAAAGGGCG TGA CTCAAGC 120
TGACGGGACT CCAGTAGGGA CTTTGAGAGC ACATTTTGTA AAAATATTTA TCTAGACGCA 180
AATGCTTATC CATGAATGTC CTCTTAGACC ATTTGGGGAT GAAGCCATCT TAATAATTAG 240
TAATAATTAA TTAGTAATAA TTAGTAAGCA TTTTCTCAAT GCTCTGATTC CATCATGTTT 300
TCTTAACATG ATAAC TAAA AAATTGAAA 329

```

## (2) INFORMATION FOR SEQ ID NO: 992:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 332
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01129

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 992:

```

GATCCTCCTC AGAACTACC GGACTTGTTT TCTGTATTGG TGTGTTTTGT ATCTTGCTTG 60
AACTTCCTGT TCTTCTTGGT ATACTTTAAC ATTATNATNA TGTGGGATTC CAAAAGTGGA 120
AGAAATCAGA AGAAATCAG CTAGCTGTAT TCCTAAACAA ATTGTTTCCT AAACAAATGT 180
GAAAATGTGA ACAGTGCTGA AAGGTTTTGT GAAC TTTTGT CTATGTATAA NTGAAATTAC 240
CATTTTGAGA ACCATGGAAC CACAGGAAAG GAAATGGTGA AAAGTCATTG TTGTCTACAC 300
AAAATAAATG TATATGGAGA CCAAGACCA AA 332

```

## (2) INFORMATION FOR SEQ ID NO: 993:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 330
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01130

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 993:

```

GATCAAGAAA TCAGGATGGC CATTATTTTA ATATCCATTC ATTTTCATGTT AGTGGGACTA 60
TTAACTTGTC ACCAAGCAGG ACTCTATTTT AAACAAAATT TAAAACTGTT TGTGGCCTAT 120
ATGTGTTTAA TCCTGGTTAA AGATAAAGCT TCATAATGCT GTTTTTTATTC AACACATTAA 180
CCAGCTGTAA AACACAGACC TTTATCANGA GTNGGCAAAG TTTTCCAGGN TTCATATACA 240
GNTAGGCTAT NNGNCATGTA TTTTGAAACG CAGTGTTNCA TNATGAAAGN GCTCTCAAGT 300
NGCTTNAAG NTANTTTATT AAANGGGTNN 330

```

## (2) INFORMATION FOR SEQ ID NO: 994:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 330
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01131

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 994:

```

GATCCGGGCC TTGCGTGCAG CCTCCAACC ATGGGCTGGG TTTNGTGCTT ACTGTATGTT 60
GGCGACTTGG NNAGGGCAGG AGACGCAGCG TGGAGCCTAC CTCCCGACAT TCACGCTTCG 120
CCCACGNTGC TCCGACTGGC TGCAGCGGAC ACTGCCCAAA GCAGAGGGGA GTCTCAGTGT 180
CCTGCNAGCC AGCCGAACAC TTCTCTCCGG AAGNAGGCTG GTTCGACTGT NAGGTGTTGA 240
CTAAACTGTT TCTCTGACTC GCCCANAGGT CGTGGCTAAA GGCACCTAGG CGNCTTAAAT 300
TTGTAAATAA AATGTTACTA CGGTTTTTAA 330

```

## (2) INFORMATION FOR SEQ ID NO: 995:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 338
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01132

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 995:

```

GATCTGAATG ATGATGGAAG CATGCAGACA GCCTCTCAGT CTTACTATTT AATGTTGTAG 60
CTGGGAAAAA ACCCAGAGAG GTTAACTGAT ATACTGGGTT GGGACTAGGA TGTGGGTTTT 120
GTNACTCTNA ATCCCATGTC CTCAAACCTAC GCTGCCTTCC GAAGTCTGGC ATTTGTNAGC 180
TCATGCTTCC TTGTAGTCCA GCTTCTTATG TGCCTGTAAT ATTCTCCAGT ANGATTGTAA 240
GCCCCTTAAG GGCAGGGACG TCTTINCATC TCTAGCACTG CTATAGTGTT CTATCCTTAG 300
TTATGGACCT AGATAAATAA NTNGGTGGTG GCAACAAA 338

```

## (2) INFORMATION FOR SEQ ID NO: 996:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 328
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01133

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base



## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 996:

```

GATCTTTATA TTTNATACTC TAAANTCGTA CAAGCCAATC TNCATTTCNA CTAGTGGAAA 60
CTGTATAGCT GGTCACTCTT CCAGGACCCT TTTATCAAGA AACAAATGCAG CTTCTACATT 120
TGTNCTGCTT CTACACCAAA ACAGCTGGAA TGTATATNGT ATGGTTCTGG ATGCTCTTGT 180
ATACCTNACT CTTCACTTCT NACCTAACCC ATGTGCTATG ATTTGAATGT TTCTCCCCTG 240
CAAACTCAT GTTGAAATGT AATTGCCATG NTAACAGTAT TANTAGGTGG NNTATTTNAG 300
NGGTGNTTAG GGTGGGATTG GTGNTGTN 328

```

## (2) INFORMATION FOR SEQ ID NO: 997:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 326
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

```

(B) CLONE: HUMGS01134

```

## (ix) FEATURE:

```

(D) OTHER INFORMATION: "N"=unidentified base

```

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 997:

```

GATCTTGTGT CTTAGAGAAG CCCCATAACC TGGTAGAGCA TGTACCATCT TACATGCTTA 60
AATAACTCCA CATTTATTTG TGTTTATNAC TCTGTGTTAT AAATATACAT TTGTNGGTCT 120
CTCTCTTGGA TTATTTTGTG TCTTTGTCCT GTAACACCA CTGAAAGGGT GCAATACAGC 180
TTTCTTGAAA TGTGTATTGA ACGGATGAAT GTATAAATAA AANTTAAATT TTGTAAATTT 240
CTGCTTATNC TTAGAAAAAG AATCTAAATN GTGACAAATC AGAATTGAAA AANGTATTCT 300
AATAAGANA AACANGCTTT TATAAA 326

```

## (2) INFORMATION FOR SEQ ID NO: 998:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 325
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

```

(B) CLONE: HUMGS01135

```

## (ix) FEATURE:

```

(D) OTHER INFORMATION: "N"=unidentified base

```

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 998:

```

GATCCCCAGT GTTGAGGTG GGACCTAAGT GGCAGGTGTT TGGGNCATGG GGATGGATTC 60
CTCACAAACG GCTCGGTGGC CTCCCTGCAG TAACGAGTGA GTTCACACAC TATTAGCTCA 120
CATGAAACCT GGTATTAAA GAGTCTGGGA CCTCCCTCCA TGCTCTCTCT CTTGCTCCTT 180
TCTCTACCA CATCACACGT GGCTCCCCTT GCCTTCTGCC ATGAGTGAAA GCTTCCTGAG 240
GGCCTCACCA GACACAGATG CTGGTGTCTAT GCTTTTTGTA CAGTCTGCAG AACCCCGAGT 300
CAAATAAACC TCTTTCTTT ATAAA 325

```

## (2) INFORMATION FOR SEQ ID NO: 999:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 322
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

```

(B) CLONE: HUMGS01136

```

## (ix) FEATURE:

```

(D) OTHER INFORMATION: "N"=unidentified base

```

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 999:

```

GATCACTTTC AATTGAAGTC AGGGTATTGT GCATAATAGA AAGTATTGGA CTGAGATATT 60
TGGTTACCAT GGAGGCCAAT GCTTTTTTCA TCTTATTAAG TGTGATGTGA CTTTTTNCCT 120
TGTACAGAAG AGTACTGTAT TTTTGAATAG CCTACTCCCA AGTAAGAGCA AATCTGTATG 180
ATAACATTTT TNCCNCTGGA CATAAGACAT AACAGTAACA CGATGTACAT TTACAAGCGG 240
CCTTATGTAC ATTTCCCAAC ANTCTTTTAA AGGCAAAATT GTGACCATAT GTGTATAATT 300
AAAATCGTTT TTAATCCNTA AA 322

```

## (2) INFORMATION FOR SEQ ID NO: 1000:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 322
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

```

(B) CLONE: HUMGS01137

```

## (ix) FEATURE:

```

(D) OTHER INFORMATION: "N"=unidentified base

```

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1000:

```

GATCTTAGAA ACCTCTGCAC AGAAGCTGCT TTGCTGGCTC TGCAAGAAAA TGGACTAGAC 60
GCAACTACAG TNAACAAGA GCACTTTCTA AAATCACTTA AGACTGTAAA ACCGTCGTTA 120
AGTTGCAAGG ACTTGGCTTT ATATGAAANC TTATTTAAGA AAGANGGATT TTCTAACGTG 180
GAAGGTATTT AAAANTCACC TTAAACTCTT GTNCAGTTCA CATTAAATTGA AATGTGAACT 240
TGCCTGTCGT TTGCAACTTC ACACCTTTAG AATTTGTGTT TATATTCCTT GTANGTGAAT 300
AAATANANCA NNNCAGNNCA AA 322

```

## (2) INFORMATION FOR SEQ ID NO: 1001:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 353
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

```

(B) CLONE: HUMGS01138

```

## (ix) FEATURE:

```

(D) OTHER INFORMATION: "N"=unidentified base

```

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1001:

```

GATCTCAGAA CAACCTTTCT TGTTAGTAAC ATATTTTGG CAATACATAN CAACCTGGGC 60
CTGGTGGATA ACCAACAAGA TGGGAAGAA AAGNATTGAG AACTTTAAGA GTGGTGTGGA 120
TGCAGACTCT TCTTATTNA AAATCTTTAA GACAAAACAT GACTGAAAAG AGCACCTGTA 180
CTTTTCAAGC CACTGGAGGG AGAAATGGAA AACATGAAAA CAGCAATCTT CTTATGCTTC 240
TGAATAATCA AAGACTAATT TGTGATTTTA CTTTTTAATA GATATGACTT TGCTTCCAAC 300
ATGGAATGAA ATAAAAATA AATAATAAAA GATTGCCATG GANTCTTTGC AAA 353

```

## (2) INFORMATION FOR SEQ ID NO: 1002:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 320
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

```

(B) CLONE: HUMGS01139

```

## (ix) FEATURE:

```

(D) OTHER INFORMATION: "N"=unidentified base

```

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1002:

```

GATCTGACCT GGTGAGATTA TTTCTGATGA CCTCATCAAA AAATAAACAA TTCCCAATGT 60
TCCAGGTGAG GGCTTTGAAA GGCCTTCCAA ACAGCTCCGT CGCCCCTAGC AACTCCACCA 120
TTGGGCACTG CCATGCAGAG ACGTGGCTGG CCCAGAATGG CCTGTTGCCA TAGCAACTGG 180
AGGCGATGGG GCAGTNAACA GANTAACAAC AGCAACAATG CCTTTGCAGG CAGCCTGCTC 240
CCCTGAGCGC TGGGCTGGTN ATGGCCGTTG GACTCTGTNA GATGGAGAGC CAATCTNACA 300
TTCANGTNTT CACCAACCN 320

```

## (2) INFORMATION FOR SEQ ID NO: 1003:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 318
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01140

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1003:

```

GATCCTNCNA GTTAGCCTAG TACTGCTGTA CTGGCCTGTA TGTACATGGG GTCCTTCAAC 60
TGAGGCCTTG CAAGTNAAGC TGGCTGTGCC ATGTTTGTAG ATGGGGCAGA GNCATCTAGA 120
ACAATGGGAA ACTTAGCTAT TTATATTAGG TACAGCTATT AAAACAAGGT AGGAATGAGG 180
CTAGACCTTT AACTTCCCTA AGGCATACTT TTCTAGCTAC CTTCTGCCCT GTGTCTGGCA 240
CCTACATCCT TGATGATTGT CCTCTTACCC ATTCTGGAAT TTTTTTTTTN GNNGATANNT 300
ACAGAAAGCA TTTTGAAA 318

```

## (2) INFORMATION FOR SEQ ID NO: 1004:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 320
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01141

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1004:

```

GATCTTTCTG TCTTCTGGGT TCCATTTTNN AAATGTTTAA AAATATGTTG ACATGGTAGT 60
TCAGTTCTTA ACCAATGACT TGGGGATGAT GCAAACAATT ACTGTCGTTG GGATTTAGAG 120
TGTATTAGTC ACGCATGTAT GGGGAAGTAG TCTCGGGTAT GCTGTTGTGA AATTGAAACT 180
GTAAAAGTAG ATGGTTGAAA GACTGGTAT TGTGCTCTG TATGGTAAGA NCTAATTCTG 240
TNNGCCATG GTNCATAATT NCCTATNCAC CTTNCCTNCC CCTTNCAGC CCAATTAAAG 300
GTTGGGGTCN TAACCTCAAA 320

```

## (2) INFORMATION FOR SEQ ID NO: 1005:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 315
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01142

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1005:

GATCTGGGGG CTCGAGACTC TGAAGGCAGG GACCCTCTGA CCATCGCCAT GGAAACAGCC 60  
 AACGCTGACA TCGTCACCCT GCTACGACTG GCAAAGATGA GGGAGGCTGA AGCGGCCCCAG 120  
 GGGCAGGCAG GAGATGAGAC GTATCTTGAC ATCTTCCGCG ACTTCTCCCT CATGGCGTCA 180  
 GACGACCCGG AGAAGCTGAG CCGTCGNAGT CATGACCTCC ACACGCTGTN ACCCGAGGCC 240  
 CACGGGGCCG CGCCTGCNTC CCTTCCCCGN NACCGNGCNN TCTGCCATTA AAGCCTCCGT 300  
 GCTTCGNTCT TCAAA 315

## (2) INFORMATION FOR SEQ ID NO: 1006:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 315  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01143

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1006:

GATCCCTTGC NTGCCCTCC CTGTGGCAGG GCTAACTGCC TGGCCCTCCT GGCTCGCAGC 60  
 CAGCCAGNCC CCTGGCAGCA GGTTCTCCTC AGGGCTTGGN TCTTCAACCT GTGGCGACAG 120  
 GAGGCAGGGC AGACTGTGGA GGACAGGATG CAGGTCAGGG AGAGGGGAAGG CAGGGGTGGA 180  
 CCGCCATGAG CATGAAAAGC CCGAAGCAAG TTGACTCTTN AATTTGCAAC TGTTATGNTC 240  
 TGAAAATGAG AACGATGTAT CAANTTGATG CANTTTNGAT GTTGTACTION CAATAANGTT 300  
 TTAATGTGTN TTAAA 315

## (2) INFORMATION FOR SEQ ID NO: 1007:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 315  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01144

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1007:

GATCTGAGGN CAGGANTTAA ACCACAGAAT GTATNTGCCT GTAAAGCACA GGGGAAGAAA 60  
 CGACTCATTAA GAACTACACC TGTTACATAC CATTGCGTAA ATGNTTTAAG NGGGGAATGG 120  
 TGTGACAAAC CTTCAAAAAA NATGAACACC TTAATGTTCA GGACTIONAAGC TAACTCCCTA 180  
 TGNTTAGGCA CAGCTTGATA CGAGCGGAGA CTTGGCAGTC AATTCCANGT CTTTTATACT 240  
 NATTACCTCA TCGTNACTGT NAGTGCAACT ATAGTCTGTT GTNGGAATTT GGNCATCCCT 300  
 TAGTNTCNGA TGGTN 315

## (2) INFORMATION FOR SEQ ID NO: 1008:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 314  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01145

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1008:

```

GATCAGAAAA AACAGAAGCC AAACTCGGGG TCATCTTTGT TTTTAAAGCT GAAGTGGGAC 60
TGTCTGGCAC TCTGTGTATT TATGCGTTCC AGCATCTGGA ACCTCCCATC CCTGCCCTCC 120
TCCTGTGTAG CTGCCACCTC CCCGCTGGGC CCAGCATGGC TCACCTGTCC CGTGGGCTGT 180
GTTTCTTGTT GTTTTCTCTT TTGCAAAGAC ATAGCTAGGA AAGCGAATGA TAAGGGAAAA 240
GTTCTCAGGG AATTGAAGTG TTGTTGCTAT GGTGACGTCC TTTTGCTGTG AATAAAGGTG 300
CTCTTTGCAG CAAA 314

```

## (2) INFORMATION FOR SEQ ID NO: 1009:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 313
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01147

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1009:

```

GATCCACAAT AGTGGCATGA GGCAGGCGAC TGTNTGTNAC CTCTATGTCC GCAGAGTCCA 60
GCACGCTAAC AGCTGGGAGA TAAAGCAGT GGAGAGGGCT GTTGGGGGAC ATGCCATGGA 120
AACTACCTAG GACCTGTTCC CTGAGTTAAC ATTCTAGCCT CATCTACTTG TTTGCCCCCT 180
GCAGCTCATA TACANACTGG CCCACCATTT ACGNACCATC CCCTCAAGTA ATCTTAAAGG 240
TTCTCAGCCC ANACANATTA ACTGTTCTGA CCCCACCTNC TTAATAAACA ATCCTGGGNT 300
CAGCCATNTG AAA 313

```

## (2) INFORMATION FOR SEQ ID NO: 1010:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 311
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01148

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1010:

```

GATCTGGCAG TTGAAAATTG TGGGAAAGAG AATTTGTATG GGCAGTGTAT CTATGAAATA 60
CCTCATAACT TACGTTTACA TGTTTTCTTA ACTTTTNGTA TTTTCNTNGT ATAGCCACCT 120
AGAGAATTCT TCATAGATTA AGAACTACAG TTTTNACCAC TTAACATAAG TAAAACAAAG 180
TCCTTCATAA TTNAACCATT AGCATCTTTG GCCAAACCAA AATAAAGANA AGCATCTNCT 240
CCTAGTTGTG TGTGGGCAAC AGANACANGT TAAGGNAACA NAAATACTTA TATATACACN 300
GANCANANGT N_____ 311

```

## (2) INFORMATION FOR SEQ ID NO: 1011:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 308
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01149

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1011:  
 GATCTCCCTT GGTCTTCCAT GGGATGGTTA GTGTGGAGGG GAGATATAGA TTGTCCGGCC 60  
 GNTTGTGAT TCCATGGGAT TGATTCAGTC TTCTGGATTT TTTTNTCTGT ATATTNNGG 120  
 TACTGGAGCT TTTAAAAATG CTTGGNTTCA GGTATTTTNA TTCATGTGAA GTGTATATGA 180  
 TTCTNTTGAG ATAAGGTTTT AAGCTAAAT GTNACTCCCT GNTTNAGCNT CTGAACCTG 240  
 ACAGATTNAC AGGGACTTTG CTGGTGTAGG CTTTTTAAAG GGNTTANTAN TCCACTTTGA 300  
 GCCTNAAA 308

(2) INFORMATION FOR SEQ ID NO: 1012:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 308
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01150

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1012:

GATCTGGAGT TACCTGAGGC CATAGCTGCC CTATTCACCT CTAAGGGCCC TGTTTTGAGA 60  
 TTGTTGTTC TAATTTATTT TAAGCTAGGT AAGGCTGGGG GGAGGGTGGG GCCGTGGTCC 120  
 CCTCAGCCTC CATGGGGAGG GAAGAAGGGG GAGCTCTTTT TTNACGTTGA TTTTNTTTT 180  
 TCTACTCTGT TTTCCCTTN TCCTTCCGNT CCATTGTTGGG CCCNGGGGGT TTCAGTCATC 240  
 TCCCCATNTG GNCCCCGGA CTGTCTTNGT TGATTCTAAC TNGGNNNGGA AAGAAANTAT 300  
 TATTCAAA 308

(2) INFORMATION FOR SEQ ID NO: 1013:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 307
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01151

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1013:

GATCCATGGG GCCGCAATGA AGCTTGGAGA TACATGGGTG GCTTTGCAA GAGTGTTTCC 60  
 TTTTCTGATG TATTCTTTAA AGGATTCAA TGGGGATTG CTGCATTTGT GGTAGCTGTA 120  
 GGAGCTGAAT ATTACCTGGA GTCCCTGAAT AAAGATAAGA AGCATCACTG AAGATAATAC 180  
 CTGGAAGCAT CATAGTGGTT TCTTAACTCT CCAAATAAG ATTTCTTCTC TGTAGCCTAC 240  
 TTGTCTGGTT TATCCCTTAC AGAATATTAG TAAGATTAA TCAATTAAA TATATATATA 300  
 TGCCAAA 307

(2) INFORMATION FOR SEQ ID NO: 1014:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 306
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01152

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1014:

GATCGGTCCA CGAAAGTTAG CCCATATGTA TATCTTGAAT AGTATAGGGG AGGGTATTCA 60  
TAAAGTCCTT ATGTGGTTTT AACTAAGTGA AATTATGGAC AAGAGAANNN NTTGTAAAAT 120  
CGTCTTAAAG GCAAATTTAA TTTTNACTCC TGTTTATGGG ACATTCGTTC TATTAACGTG 180  
CAGACACAAT TTCTGTTTTT ATCTGAGAGC CAGTTTTCCT TTATTTCTAC ATCTAAAATA 240  
AGANCATATT GTACACTATT ATATAATACA GAATTGTCTT AAACCTTAAT AAATTCGCAT 300  
TTTAAA 306

## (2) INFORMATION FOR SEQ ID NO: 1015:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 306  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01153

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1015:

GATCTCAGCA GTGGGGCAGG AGGGTGCCTG ATTCGGGGA GTCCTGACCC GAGCCTGTTG 60  
TCAGAGTTGG GAGGGGCTCT GAGCAGTGTT GGGCAGGCCG GGTCTCCCAT CCCGAGGCCA 120  
GCGTTCCTGT GCAGAGCCCC ATCCACTGGT TCTTGCCCTG AGCCACATAT GTCTGTNCCA 180  
TGGGCTGAGT GCCACGACAG GCCCGTGTGA CAGCTGCTGC CCACGCATNT NGAAGCTAGG 240  
TGGGACTCAT TCCTAATTCT GCCGTTGTAA TGAGACTTGA TTAACACACC GCCACTTTTT 300  
TGCAAA 306

## (2) INFORMATION FOR SEQ ID NO: 1016:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 304  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01154

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1016:

GATCAACAAG AAATGTTATG AAATGGCCTC CCACCTTCGG CGTTCCCAGT ACTGACCTCG 60  
TCTGTCCCTT CCCCTTCACC GTCCTCCACA GCTTTGCACC CCTTTCCTCC CCATACACAC 120  
ACAAACCATT TTATTTTTTG GGCCATTACC CCATACCCCT TATTGCTGCC AAAACCACAT 180  
GGGCTGGGGG CCAGGGCTGG ATGGACAGAC ACCTCCCNNT ACCNATATCC CTCCCGTGTG 240  
TGTTTGGAAG ACTTTTGTTT TTTGGGGTTT TTTTCTCTG AATAAAAAAG ATTCTACTAA 300  
CAAA 304

## (2) INFORMATION FOR SEQ ID NO: 1017:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 304  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01155

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1017:

```

GATCTAAAGC AGGTNGTGTT GTTTACATGT TTCTACACAT TTCATCCTTT AAAAAGTTGT 60
TGAGAGAGGT TGTATTTACC TTCCAAGGT TGGAAAGCAG GGAATTTCC CAGTGTCTTA 120
GTTTTCCACC AGAGGAATAT GTGTAAGTAG CAAAGTATTT GCTGCTTACA TATAGTGTGT 180
ATGTATGTAT ATATGTAAAT NGTGTGTAA AGAGCTGATA CTGATTTTCA TATGNCAATG 240
TTAAGGCAA GGCCTCCCTG CATTGANGA GCAGGTNTTC ATTTATATGT ATTTTNGGGA 300
TAAA 304

```

## (2) INFORMATION FOR SEQ ID NO: 1018:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 304
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

```

(B) CLONE: HUMGS01156

```

## (ix) FEATURE:

```

(D) OTHER INFORMATION: "N"=unidentified base

```

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1018:

```

GATCAGAAAT NAAGTGCAGC AATATCATGA ATTCTNAGAA GNCTTTAAGG GAGCCAGTNA 60
GTCATACAGT ATCCACAGTT GANTCACTTA AAGATGTCAG TATACGAACA TTATTCACAA 120
TCCTTGGGCA ATCTCATTTT TTTTCCCTTC TCCCCTCCTC CCCTGCCCCC ATACATTTNT 180
ATCCTTAANG TAGTTTTGGA GGGGCAGGAT GTACTTAACA TCTCANAAGC TAGATTGGGA 240
ACATNTCANT ATAAGACTGA GTTTAAATTT ANGGTTAAAA TGNCATCAGA ANANTTGGGN 300
GGGN 304

```

## (2) INFORMATION FOR SEQ ID NO: 1019:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 169
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

```

(B) CLONE: HUMGS01157

```

## (ix) FEATURE:

```

(D) OTHER INFORMATION: "N"=unidentified base

```

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1019:

```

GATCTAATAC TACTGTCAGT TTTAATGTGC ACTGTGTTTT ATACAGTATC TTTTTTTGTT 60
CACTTNGGAA ATTTTACTA AAAATTGCAA AAAATAAAGT ATTGTGCAAA GATGTAAGGN 120
TTTTTGANAC TTGNNGTGCA TTAATAANTA GACGATTAAN TCAAGGAAA 169

```

## (2) INFORMATION FOR SEQ ID NO: 1020:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 303
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

```

(B) CLONE: HUMGS01158

```

## (ix) FEATURE:

```

(D) OTHER INFORMATION: "N"=unidentified base

```

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1020:

```

GATCCTCTAC CACAGACATT AATAGCTGAG CAGGAGCCAC ATGGATTGAT TGTATCCACT 60
CACCATTGAC GATGGCATTG AGCGTANTAG CTTATTTCCA TCACTACGTG TTTTGTAGCT 120

```



TGCTCTTACG TTTTAAGAGG TGCCAGGGGT ACATTTTTGC ACTGAAATCT AAAGATGTTT 180  
TAAAAAACAC TTTTCACAAA AATAGTCCTT TGTCATTACA TTATTTACTC ATGTGTTTGT 240  
ACATTTTTGT ATGTTAATTT ATGAATGATT TTTTCAGTAA AAAATACATA TTCAAGAACC 300  
AAA 303

(2) INFORMATION FOR SEQ ID NO: 1021:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 303
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01159

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1021:

GATCCTTNGG CTCGAAATCT CGAGAACCGC CTGCTCCTAA CAATTCAGCA AGTCAGGGGC 60  
TTCTTCTCTG TTAGTCCCCA AATCCTTACT TATTTTAAAA AGACTAGACC CTCTCTAAAG 120  
ACTGTTCCAT TTTAACATGT CCTGATTCTG CATCCGTGGG TTTTGTGAAA GAGAGCTAGC 180  
TGGCGGTTAG AGCCTGGAAG AAGGAGGGAA GTGGCACCTC ACTAGCATTT ATCACTTTTT 240  
TCCTTCTCTT TTTAAAAATA AAACCAGACT CTGTTCTGAA AATAAAAAAC TTGAGACTTG 300  
AAA 303

(2) INFORMATION FOR SEQ ID NO: 1022:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 303
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01160

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1022:

GATCTGNCTT ATCCGAGCTT GTTATTGGGG AGCCATAAGA GTCAGTTATC CAGAACACAG 60  
TTTTGCATAA GCTTGTTTAT GATTCACTAA TGCAGGTGAG AGTGTCTAGC AGTTCTTGGT 120  
AAGCTACTCT GGACATCTTT AAATTATTTA TCCTAATGGA TTCCATTCTG GTTTATGTAT 180  
AATCGTTTCA AGACTTTGGG AGTCTTTTAT GAACAAATGC TCATTGCACT ATATTATATG 240  
CAAAATTGTNN NGCTGCTAGG TTTTCAAAAT TTGAATAATA AAGCCTTTTC ATGTTCTTTT 300  
AAA 303

(2) INFORMATION FOR SEQ ID NO: 1023:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 303
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01161

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1023:

GATCAAAATC CTGTACAATA CTATAAATAT ATATTNATNT TTTACAGTC ACCAAGTGTA 60  
TTGTAATGTA TACTTGAAAA ATGTTATAAC TTATGAAGTA AAGTTTCTNA TAGTAGTCTT 120

TAAAAGATAT AAGACTTAAT ATGTTTTATT CAGCTTCTAT AAGTGTGACC AGTTTTNATA 180  
 TTTATTTTATG CTAATATTTT TAACAAGTCA TTTCAAAATA TGTGTATCTC AAATCCTCCC 240  
 NAAAGTGTTG TGGCCTTAAC TGTTTCAGTAT TGCAATAAAA NATATATNTN NNTATGTGGT 300  
 AAA 303

(2) INFORMATION FOR SEQ ID NO: 1024:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 302
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01162

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1024:

GATCTATGGA AAAGTGGGAA TGTAATGTAG GATTCTGTCA GAGCTCCTAC AGAGCACAGT 60  
 TGCCTTTTAGT TTCCTTTAAA GATGTAAAAA TATTGTATAA TACAGTTTGG TCCCTACACA 120  
 ATTGTATTTG CCAAGCTTAG TGCATTATGA TACCTTTATT TATTTGTTTT GGGCAGTATT 180  
 ACTATATATA TATAANCATA CAGTTACTGT TTTATATATT CTTAGGTCAT TCAAAGCCAT 240  
 GTATGCTGTA AATGTGCTAG TCTTTAGAAT GACACATAAT AAATAACTGA CAAGATATTA 300  
 AA 302

(2) INFORMATION FOR SEQ ID NO: 1025:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 435
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01163

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1025:

GATCGAGCCA TTGAAAGCTC ATTACCAGTA GGACATAATT TTTGGCTCTC CCTATTCACA 60  
 ACCAGTGCAC AGTTTGACAC AGTGGCCTCA GGTTCACAGT GCACCATGTC ACTGTGCTAT 120  
 CCTACGAAAT CATTGTGTTT TAAGTTGTGT TTATTCCTGG AGTGACATGC CACCCCGAAT 180  
 GGCTCACTTT CACTGAGGAT GCTGTCCTCT GATTTAGCTG CTGCCTCCAG CCTCTGGCTT 240  
 GAGAACTTAC TAAAGGCACT TCCTTCCTGT TAAACCCCTG TTAACCTCTC ATAAATTTGG 300  
 TGATTCTCTG CTAGGCCTAA GATTTTGAGT TAACATCTCT TGAAGCCAAA CTCCACCTTC 360  
 TGTGCTTTTT TGCTTGGGGA TAATGGAGTT TTTTCTTTTA GGAAACCAGT GCCAAGGAAT 420  
 GNCAAAGGTN TTAAA 435

(2) INFORMATION FOR SEQ ID NO: 1026:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 298
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01164

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1026:

GATCCACATC CTCTACAGGT CGGGGACCAA AGGCTGATTC TTGGAGATTT AACACCCAC 60  
 AGGCAATGGG TTTATAGACA TTATGTGAGT TTCCTGCTAT ATTAACATCA TCTTAGACTT 120  
 TGCAAGCAGA GAGTCGTGGA ATCAAATCTG TGCTCTTTCA TTTGCTAAGT GTATGATGTC 180  
 ACACAAGCTC CTTAACCTTC CATGTCTCCA TTTNCTTCTC TGTGAAGTAG GTATAAGAAG 240  
 TCCTATCTCA TAGGGATGCT GTGAGCATT AATAAAGGTA CACATGGAAA ACACCAA 298

(2) INFORMATION FOR SEQ ID NO: 1027:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 328
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01165

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1027:

GATCCACTTT GTTGGTTGTT GTTGCAGAAG ACTGAACTGT TTTGGAATAN TTAACAATTA 60  
 CAGAAACAGT CAAGTGTGTTT CCAATGTGGT TGTCCGGTTT CTATGGCCTT GCTGTGTACT 120  
 TTCCCTCTTT TTGACAGTAA ACTTCTGCCT ATGGCTTACA GTTTGACATT TAATTTATTA 180  
 GCGCTGCTCT GCACCCCTNC CTTGGGAGGG AGACTTCATG TGGTTTATTG CGAGTTTTTT 240  
 TGTTTACTTT TCAGGGTTNG TACCTACAAA GGTTTTAATA ATAAAAANCA AAGNTTTTTT 300  
 NGGCNATTNG TCTTGTCTTN GTGGGAAA 328

(2) INFORMATION FOR SEQ ID NO: 1028:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 297
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01167

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1028:

GATCTACAGT GCTGATGAGA AGAGAGCCCT TGCATCCTTT AACCAAGAAG AGAGACGAAA 60  
 GAGAGAGAAC AAGATTCTGG CCAGTTTTTCG AGAAATGGTT TACAGAAAGA CCAAAGGGAA 120  
 GGATGACAAA TAAAGATTTT NTGATTGTCC AGAAGACATT TTTAACAACA AAAAAGAAAAG 180  
 TCTGGGTTCC ACACATACAT AGAAAAAGAT TATTATGTTC TGAGAAAGCT TTACAGTGCT 240  
 ACTGTGCCTT CTATTTAATT CTTTCAGTCC TTCAATAAAA AGCTGCTTAT TGATAAA 297

(2) INFORMATION FOR SEQ ID NO: 1029:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 297
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01168

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1029:

GATCCTGCTG AAATACATCT GCAGCTGACA ATGAGAGAAG AAACAGAAAA TGTCATGTGA 60  
 TGTCTCTCCC CAAAGTCATC ATGGGTTTTG GATTGTGTTT GAATATTTTT TNCTTTTTTC 120

CTTTTCCCTC CTTTATGACC TTTGGGACAT TGGGAATACC CAGCCAACTC TCCACCATCA 180  
 ATGTAAGTCC ATGGACATTG CTGCTCTTGG TGGTGTATC TAATTTTGT GATAGGGAAA 240  
 CAAATTCTTT TGAATAAAAA TAAATAACAA AACAATAAAA GTTTATTGAG CCACAAA 297

(2) INFORMATION FOR SEQ ID NO: 1030:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 296
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01169

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1030:

GATCCAGAAC ATGGGAAGTT AGGGAAAATG TGTGATTTTG TGTTTTGAAT TACTGTCAGA 60  
 ATTACATACA CAATTACAAC AACTTTTTTT TAAAAGACAT TTCATTGTAC TGCAAAAATC 120  
 TGAATATTTA TATTTCTNGT TTTTTTCTTT ATATGTTTTG CATTTTANTA TGTTGAGCCA 180  
 CTGGAAAATT TGTAACAGNT TANTTTGTTA TNGGCGTTTA ANTGTGTTGT CATTGNCTCC 240  
 ATTGTCTTTG TCCAGAGCCT ATTATTATGG AACCAATAAA NTTTAATGGG GTCAAA 296

(2) INFORMATION FOR SEQ ID NO: 1031:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 294
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01170

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1031:

GATCCTAGTC CCCTGCCCTC TGGCACAGCT GCTTCCTGCA AGANAGCAAG TTTTGGTCT 60  
 CCCTGAGAAG CCATGTCCCT CGTNCTGTNT CTTGCCTGTC CCACCTGTGC CCTGCCCTCC 120  
 AGCTTGTATT TAAGTCCCTG GGCTGCCCCC TTGGGGTGCC CCCNGCTCCC AGGTTCCTCC 180  
 CTGGTGTNAT GTCAGGCATT TNGCAAGGAA AAGCCACTTG GGGAAAGATG GAAAAGGACA 240  
 AAAAAAATTA ATAAATTTCC ATTGGCCCTC GGGTGAGCTG AGGGTTTTTG CAAA 294

(2) INFORMATION FOR SEQ ID NO: 1032:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 293
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01171

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1032:

GATCTTCAAG AAGTGAAAGA GACCGAAAAT CAGACAGGAA AGACAAAAGG CGTTAATGGA 60  
 AGAAGCCAGG CTTTCTTAGC CATTCTTTGC AGCAGAAGAT TTCTTGATAA AAAAGGATTA 120  
 CCTTTCCTTG TAAAGAGGAT GCTGCCTTAA GANTTGCATG TNGTAAAANN NCTTTTGGGA 180  
 AAATACAGAC TGTTTGTTTA CCAGACATTC TNGTACTGNT NGCATAATNN GGTAAGAGTT 240  
 ATTNATCAAA ATNATGTGAG GTTCCAAAAT ATGTAAANT GATATNATAA AAN 293

## (2) INFORMATION FOR SEQ ID NO: 1033:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 293  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01172

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1033:

```
GATCAGCGGT TCTTTTGGCA GCAAAGCCTG CATCTGTGTT GACTTGCAAG ATTTTGCGTT 60
TATTCAGGCA AAAACTGGTC AAAATGGTTA CTACATGATT TGTTCCAGAG GGTGAAAC 120
ATTCAGTGAA ACTTTTAAA ACTTTGATTG CATGATGTAT TTTTTTTTNA GAAAGTTATT 180
GTTTGAGAAT AATGTCTTTT TATACCAGGA AAATAGTTAT CCNGAATGAC GTTGAAACT 240
CCCCCTCCCC TTNATTTTNN TTAATCANT ACATGTGAAA GTNNCCANGC AAA 293
```

## (2) INFORMATION FOR SEQ ID NO: 1034:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 308  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01173

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1034:

```
GATCCCAATT CCACATAAGC ACTTTTGGAA GAAAACAGCC AAAGTTGGCC TAAAATTGGC 60
GCTGGAATTT GGNCTGGGAA AAATCTTGTG GTTATTTCCT TAAAAAGGA ACAAACCTTT 120
AGTATTTAAT TAGTTGATTT ATTTAATGTA ATTNCAACA ATTAAATTAT GAATAATGCA 180
ATGTACAGTA GAATCACGTT TTGATTTTAT TAACACTGAC CAAGTTTAAAC TCCATATGAN 240
GTGTAAGCTT GATATCGTTT ATGATGTCTA TCAACTGTAC CAAAAGTAAA ACATTTAAAA 300
NCANNAAA 308
```

## (2) INFORMATION FOR SEQ ID NO: 1035:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 292  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01174

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1035:

```
GATCTCAAGT GACCCGCTG TCTCGACCTC CCAAAGTGCT ATGATTACAG GCATGAGCCA 60
CTGCACCCAG CCAAACATGA CTTTCCATC CAGAGTAAAT CCAACTAACA AGAATCCACC 120
CTTGGAGTTC ATGTAAAAAT ACATGACACA GGGTGATGAA AGTGCTTTGA AACTAGATAC 180
AGGCAGTGGT TCTATAGCAT GGTGAATGTA CTCAAGGCAA CTTCTTTACT TTAAATCGT 240
TAATTTTATG CCATGTGAAT TGCATCTCAA TAAAAATTGT TTTCATTTTA AA 292
```

## (2) INFORMATION FOR SEQ ID NO: 1036:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 363  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01175

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1036:

```
GATCGGGAAC TCCTGCTTCT CCTTGCCCTCG AAATGGACCC CAACTGCTCC TGCTCGCCTG 60
TTGGCTCCTG TGCCTGTGCC GGCTCCTGCA AATGCAAAGA GTGCAAATGC ACCTCCTGCA 120
AGAAGAGCTG CTGCTCCTGC TGCCCTGTGG GTGTGCAAGT GTGCCCAGGG CTGCATCTGC 180
AAAGGGACGT CAGACAAAGT CAGCTGCTGT GCCTGATGCA GGACAGCTGT GCTCTCAGAT 240
GTAAATAGAG CAACCTATAT AAACCTGGAT TTTTTTTTTT TTTTTTTTNN AAAANCCCTG 300
NCCNNTTTGT AAAATTTTTT TTTNNNTGAA ATANGNAANG GNAATAATTN ATCNGGNNTN 360
TTN 363
```

(2) INFORMATION FOR SEQ ID NO: 1037:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 288  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01176

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1037:

```
GATCTTGGAAG AGCACTAGAA ACTAAACATC TTCACCAGGT GCTGAAGAAA AGTGTCTTCG 60
TTTTAATTGC CAAGCAGGGA TGTGGACATT TGGATGGTGA CTTTCCTGGG TGGTTCCCA 120
TAGATTCACC ATTGCTCTTA ATGGTGTCTA CACCCGTCAT ACTACCAGCT GAGATGGTGG 180
TGGGCATAAG GAGAATTTGT GCCTATAACC CTTAGTGTGT TCTGGTTTTT TTTCTTTTAA 240
TTTTTAAATT GTCGTAAAT ACTCATAAAA CATACTGTCT TCACCAA 288
```

(2) INFORMATION FOR SEQ ID NO: 1038:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 288  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01177

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1038:

```
GATCACCTTG TAGTCTTTAA ATTCTTGGTC CCTGAGGCCA AGTCCACAAC TTGCCTTCTA 60
GTCACTTGCC TGCCCGCAGT GGTGGTGGAT GTGTTAGCTG GTAGATTGGA AATCAGTCAC 120
CAGTCTTTCT GACTGTCTT GGTTAGCTCT ATATAAGTAG GGGCAGCTTA GCCCTGAGGC 180
CCAGAGACCT GCTGTCCTTT TTCTCCTTGA GGGAGGAAAT AAAACTGCGG AATACAATGT 240
CCTTCCATAG CATGGGAAGA AGAAAATAAA CATCTCCTTT CCAACAAA 288
```

(2) INFORMATION FOR SEQ ID NO: 1039:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 288  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01178  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1039:  
 GATCCACCCT CCTGTAAATA TGGAACAAAT ATCTGAATGA AATCCACCCT AGGAGACGGA 60  
 GCAAATAAA CTTGTGGTTT TNCATTTAAC TTTTGACTAC AGCATGGCCC CATGGCATCC 120  
 ACACCAAGAG GGTGTTGTGA TGAGGTGCCG GTGTGCAAAG GGAACCTTAG TTTTCCACT 180  
 GGTTCTTATC TGCTAGCCTT TTACATACAT GTGTACTATA TTTGTTTATA GACTGTAGGT 240  
 GGATATATAA TTAAAAGCT TGATTTAATA AACATTTAAC CCCNTAAA 288

(2) INFORMATION FOR SEQ ID NO: 1040:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 287  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01179  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1040:  
 GATCTTCAAG TATTTGCNAC TTTCGAGTAC AGCTAATTGG ATAATCTCAA ACCCTTTAGT 60  
 GAAAATATCT TAAATGCATT GAGAATATTT CCTAATTACC TGTGTATGCT ACAGTACAGA 120  
 CATTAATTCT ATAAACATGT TCATAGGTCT TCCCCCTCGC CCCGNCCGTC TTCTAAGGGC 180  
 ATTTCTGTG TCTNTTNAGT GAGTTCATGN ATGTTTACCG GTTCTGGCGN AANGTTTCTT 240  
 GCATNCTGAG CATAAAAATA NTAAAACCNA CTGATANTTG CTTGAAA 287

(2) INFORMATION FOR SEQ ID NO: 1041:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 289  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01180  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1041:  
 GATCTGCACA CGCATAATAA TCAGCATTGA GGGCAACAAA ATGCCATTGT GACCTTGCCT 60  
 GGAATGTGTC CCCATCTCTA CTCTAAGAAA TGCGCAATGG ACTCTTTGGA GAAAGAAGAT 120  
 ATTTTAAAC ATTTTGTAGT TGTCTGTAAA TGGTTCAGCG TGTATCAGAT GTTGTATAG 180  
 GACTCACATT TCTCTCAGTT ATATTTAAAA CCGTTGTGTA CTTTGTACAA NGGAATACTA 240  
 GTCATACTTC TATAAACTTT NCACAATAAA ATTNTCATTG TGGGTAAA 289

(2) INFORMATION FOR SEQ ID NO: 1042:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 287  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single

(D) TOPOLOGY: linear  
(vii) IMMEDIATE SOURCE:  
(B) CLONE: HUMGS01181  
(ix) FEATURE:  
(D) OTHER INFORMATION: "N"=unidentified base  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1042:  
GATCGCACCA CTGCACTCCA GCCTGGGNAA CACAGTGAGA CCCTCTCTCA AAATAAATAC 60  
AGNCAGGCAT AGTGGCTCAT GCCTGTAATC CCNGCATTTT GGGNGGTAGA GGTGGGTGAA 120  
TCACCTGAGG TCAGGAGTTC ANGCCCAGCC TGGCCAACAT GGCGAAACCC CATCTCTACT 180  
AANTATACAN AANTTAGCCA GGTGTGGTGG CCTGCACCTG TAATCCCAGC TACTCAGGAG 240  
GCTGAGGTAG CTTGANCCCN GGAGGCANAN NTTGCAGTTA NGCCAAN 287

(2) INFORMATION FOR SEQ ID NO: 1043:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 286  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear  
(vii) IMMEDIATE SOURCE:  
(B) CLONE: HUMGS01182  
(ix) FEATURE:  
(D) OTHER INFORMATION: "N"=unidentified base  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1043:  
GATCTCTCCT GGAGTATGAA GACCTCCAAG GACTCACTTT CCCTCCCTTC TGATGCCAGA 60  
GCAGACCAAG CTGTCACTCT CCAGTCTCAT GCTGAAGTCT CCAGCTTCTC AAGCTTAGAA 120  
GAGTTTTTNG AAGAGTCACT TTCAGTCTCAT GCAGCTCTCA CAAGTGTGAA GGGAGTGGAT 180  
TGGGGGTGTT TTCCTTGCCA TTTTCGAAAA GAAAAAATT ACCTGGTGAT TGGTGGAAAG 240  
ATACAACTGT CAAAAATGCA TGATTGAAGC AATTTAGGTT GGGAAA 286

(2) INFORMATION FOR SEQ ID NO: 1044:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 286  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear  
(vii) IMMEDIATE SOURCE:  
(B) CLONE: HUMGS01183  
(ix) FEATURE:  
(D) OTHER INFORMATION: "N"=unidentified base  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1044:  
GATCAATAAA TNATACCAAA TATATGTTTA CAGTATGATT TAAAGTCTGA TTCAGACCAG 60  
GGACTCTATT TTAAGTTCAA CTGAAATAAC ACTGGGTTTT AATTATATCA CAGGAAAAAA 120  
AAAGTGCATT TAAAGTATTGT NATCGTGGAC TTTATAAAAG CAAAGGAAAT TGAAAGTAAC 180  
TTTNGATTCT GTATCANGAA TCATATTTNC ATACAGTCAT AACTGTCTTN CTGTGACCCT 240  
TTCACAGGGC ACTGTAGGAT GGATTAAAGG TGGCAATTTA CTGAAA 286

(2) INFORMATION FOR SEQ ID NO: 1045:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 439  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear  
(vii) IMMEDIATE SOURCE:  
(B) CLONE: HUMGS01184



## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1045:

GATCATACCG GTAAAGCAGG AATNACAAAG CTTGCTTTTC TGGTATGTNC TAGGTGTATT 60  
 GTGACTTTAA CTGTTATATT AATTGCCAAT ATAAGTAAAT ATAGATTATA TATGTATAGT 120  
 GTTTCACAAA GCTTAGACCT TTACCTTCCA GCCACCCAC AGTGCTTGAT ATTTTCAGAGT 180  
 CAGTCATTGG TTATACATGT GTAGTTCCAA AGCACATAAG CTAGAAGAAG AAATATTTCT 240  
 NGGNGCACTA CCATCTGTTT TCAACATGAA ATGCCACACA CATAGANCTC CANGCAGCATC 300  
 ANTTNCATTG CACAGACTGA CTGTNGTTAA TTTNGTCACA GNGTCTATGG ACTGANTCTA 360  
 ATGCTTCCNA AANTGTTGGT TTGTTTGCAN GTTTTCGANC CGTTGTTATG GCANGANGTT 420  
 NGTTTAGTTT CNGNTTGTN 439

## (2) INFORMATION FOR SEQ ID NO: 1046:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 285  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01186

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1046:

GATCTGGAAA CAGTTGAAAA CGAGACAATA TAGCCGGAGA CGCCTTATAT GATGATGCAG 60  
 TATCGACTAC ATTAATGAAA GTAATGCCAA ATNCAACAAG AAAGCTGAAG ATTCTATGGG 120  
 AATACACAGC TGAATTAACA GATTTGGAAG AGAACANCTG NTAATCCTTC AGGACTGTTA 180  
 TAGAGTTNAG ATGGGTAAAT TCTCCTANAA ATCAAGTCTT TTGAATTTNC AGAATCAGAN 240  
 TTAGAGCCNG CTCTACTAGA TTGNATAANT GNGGTCTAAC GGAAA 285

## (2) INFORMATION FOR SEQ ID NO: 1047:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 285  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01187

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1047:

GATCCGGGNG GACCCCTTTG CCCTTCCCTC GGCTCCCAGC CCTACAGACT TGCTGTGTGA 60  
 CCTCAGGCCA GTGTGCCGAC CTCTCTGGGC CTCAGTTTTT CCAGCTATGA AAACAGCTAT 120  
 CTCACAAAGT TGTGTGAAGC AGAAGAGAAA AGCTGGAGGA AGGCCGTGGG CCAATGGGAG 180  
 AGCTCTTGTT ATTATTAATA TTGTTGCCGC TGTTGTGTTG TTGTTATTAA TTAATATTCA 240  
 TATTATTTAT NTAATACTTA CATAAAGATT TTGTACCACT GGAAA 285

## (2) INFORMATION FOR SEQ ID NO: 1048:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 283  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01188

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1048:

```

GATCGAAGTG ACAAAGTGTG TTTTCANTCA CAGTGGAGGC TACATCAAGC AAGGGGAGGT 60
CCAGCCCTCT TGCAAGTGTG GTGAGAGGCT CTACTAGCAA AGACATGGGC ACCGGAGTAG 120
GTCCCGTGTA GCATGCGGGT GCTGTAGAGA AAATTCAGTG ACGTACATGG CTCTGGTTCT 180
GGACACAAAA TCTGTACTGG AGAGGAAATG ACTGCTGAAA TAAGGCGATT GTATGAATAT 240
TTAAAATGCC TGAACACTA AAGTAAAGTA ATGATATTTC AAA 283

```

## (2) INFORMATION FOR SEQ ID NO: 1049:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 283
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01189

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1049:

```

GATCCTCGCA GCTTCCTNCG AGCGGGGTGT CGCAGTCTTG TGCACAGAGT AAACCTTNCT 60
AGCTGCCCCCT TTCTGTAATA GTGAAAGTTG GTATTTAACA TTTATNCATT TTAAAATAT 120
TTGGAAGGTC TGANCTTGTG AAAAGAAAGT GGTGGNCTG AGGTTGGAGG NAGCTGAATG 180
GAATCTNACG GTTGGNAGTG GTGGAAATTG GAAGGATACC AGGAGGTATT TGGGAAGGCC 240
AATGGCGTGG CTCCTTTGAG GAAATAAAAC ACTAAGCATG AAA 283

```

## (2) INFORMATION FOR SEQ ID NO: 1050:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 281
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01191

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1050:

```

GATCCTTTTC ATACCTNATT TGGAATTGCT GGATTGTAAC TTTTGGNAGA AGAACAGATT 60
AAACCTGTTA ATCCTGTCTT TTGCATGCCT GAAGAAGTGC TTCAAAGAGT GAATGTTTCA 120
CCTGAGCTAG TGAGCTAGAT TCATTGAATT GAAAGTTGCA TAGTATAGTT TTGCCATTTT 180
AACATTTCTG TATTTNAAGT GCTTATCGAA TCTAAAAGTG ACTACTGTNA ATATTNNGTA 240
TATNGTGTNA AATTAATTNN ANTAAATNAT ATAATTNTAA A 281

```

## (2) INFORMATION FOR SEQ ID NO: 1051:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 226
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01192

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1051:

GATCAATGAC AGAGCCTTCT GGAGGACATT CCAAGACAGT ATACAGTCCT GTGGTCTCCT 60  
 TGGAAATCCG TCTAGTTAAC ATTTCAAGGG CAATACCGTG TTGGTTTTGA CTGGATATTC 120  
 ATATAAACTT TTAAAGAGT TGAGTGATAG AGCTAACCTT TATCTGTAAG TTTTGAATTT 180  
 ATATTGTTTC ATCCCATGTA CAAAACCATT TTTNCCTACA AATAAA 226

(2) INFORMATION FOR SEQ ID NO: 1052:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 277
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01193

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1052:

GATCACAGCA TAAAAGAATC ATAAGATAAA ACATCAAACCT ACCCAGCAAC CTGAGAAGCA 60  
 CAGAGTGTTA AAGCCTCCAC CGTGTGAGAA ACTAAATTAG GGTAAGTAGC TATTGAGTAT 120  
 ATTGAGTACC TTCAAAGCAC TCAACTGACA GGTTTTACAG ACTGGAAATT ATAATACTTA 180  
 TGACATTTCT ACCTTTTATA TAACCAATAA TCTACCATAG AATGTAGTAT TTTTANAGCT 240  
 ATTAGCANGC AATATATTAN NNTANTANTG NATTAA 277

(2) INFORMATION FOR SEQ ID NO: 1053:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 277
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01194

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1053:

GATCCAACCC GAATAAGATT AGAAGCTTTC CATCAGTAAA AGGATGTTTT CTTTTTTCAC 60  
 ACAGTAAAAA TTCTTATCAT TCAAGGATAT TGGAACCACA GGACTATTTG GATAAAAAAC 120  
 ATTATTTGCA AATTAATGCG CATAGGCCAT CTTACTTTTA TTGCAAAATG GCATGTGCTG 180  
 CCATCTATTA TTCATTTTAA AATGGTCATT TCTTATTCAG TGAGTGCTTT AGTGTTTTAA 240  
 ACTATATGGA TAAGAATGCA GGTAGGATAA TATTCTN 277

(2) INFORMATION FOR SEQ ID NO: 1054:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 283
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01195

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1054:

GATCCTGAGG ATTACAGCTG TGGAATTTTT GTCCATGCTT CAAATAATTT TGAAAGAAAT 60  
 TTTCCCATAT NAAAAAGGA GAGAACTN GCATCTGTTG AAATTTGGAA NTTCTGAAAT 120  
 NATAGTATTT TAAAAATTG CACTGAAGTG TATACACATA AAGCAGGTCT TTTATCCAGT 180  
 GAACAGGATG TTTTGCTTTA GCAGCAGTGA CATAAANTTC CATGTTAGAT AAGCATNTGT 240

TNACTTACCT NGTTATTAAA TATTTNTTGG AAAAGCAGTG AAA

283

## (2) INFORMATION FOR SEQ ID NO: 1055:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 277
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01196

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1055:

```

GATCTGTGTA TGCTGTTGGG TCGGAGTGCC AGTNACTGCT TTGGAAGTCT GNGTTCTGGG 60
GCTGCAGAAT GACAAACGTG TCATGGGATT AAAACCAATC AACTGTGAAT TGTGAAATTG 120
AAGCTACTCT TTCGGTTTTA TTTTCTTTAG CATATTGAGT ATAGAAATCT GAAACTTATT 180
TAAAATTTAT ACTGCTTTTG TTGATGGCTC ATTTTGGCTG TGTATCCTCA CTTATGTACT 240
GATTTCTGAT AAAGGCTTGA CATTATTATA ACANAAA 277

```

## (2) INFORMATION FOR SEQ ID NO: 1056:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 103
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01197

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1056:

```

GATCGACCTT NTCTGTTTTN TTTTGTTTTN NTTTCTNTTT CCTGGCCATG AGGACAAAAA 60
TTACTGAGTG GCCCTTAAAG AGGGAAGTTT GTTTTCAGCT GTN 103

```

## (2) INFORMATION FOR SEQ ID NO: 1057:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 291
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01198

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1057:

```

GATCGACCAC ATCCTGGATG CCCTGTAGCC CCTGCCCCGA TCCTCCAGGG GGGCCAGGGT 60
GCCTGCACTT TNCTGTGGCA GGCAGATTGG GTGGTAGTGG GAGGTTGTGC ATGGAGGCCA 120
GTNAAAGCTG ACATCTGTAA AAGGCCTTCA AGGAAGAGAA ACCAGGCCCT GCGTCAGGCA 180
GTGTGAGTTT GCCGTTTGTC CTTAACTTTC TTTTTTTTTT TTTAAAAAAN GGAAANNTTT 240
AAAAAANCTC CCTTTAAAAC CAAANCATNT TTGNNTTTNN NCCAAGGGAA A 291

```

## (2) INFORMATION FOR SEQ ID NO: 1058:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 276
- (B) TYPE: nucleic acid

- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS01199
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1058:

```
GATCCCGCTC TGTNTTTTCC AGGTTTGTGC TATTCTNATT ACATTATCGA CTAGTCTGAA 60
GCAGAGCTGA TATCTCTTTA CCTGGGGAGT CAGCTTCACC AGCCACAGCT GCTGAAAGAA 120
TAGCTTGAGG ATTTACACCA CTGCATTTCT GTNGCTCAAA CTTTTTGACC TTTGTGCTAT 180
TTGAGAAATC TTTGAAATGC TGAAGGTATG ATTCTCCTTC AGGGGGAACA TGCTTTGGGA 240
AAAACGCCCA CTTAATAAAA TGTATTTTCT TTCAAA 276
```

(2) INFORMATION FOR SEQ ID NO: 1059:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 276
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS01200
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1059:

```
GATCTGTATA TGGTAAACAG GGGTTTAACC ACATGTGGTT AACATGGATT AATGTGGGAN 60
TTTGGCTTCA AGAACACAAC CTTAGGACCT TGGNCCCCAA AAGCTGGTGG TGAAATGAGA 120
GGNGCCAATT TAAGAAGACC CTTATGGAGA CCTGAGGCTG CAGAAACTGG TAGGTTTCAT 180
CAGGTGGTTA AAGTCGTCAA AGTTGTAAGT GACTAACCAA GATTATTTCA TTTTAAACC 240
ACAGAATAAA AATGACACCT GAGCTTCTCT NTNAAA 276
```

(2) INFORMATION FOR SEQ ID NO: 1060:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 276
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS01201
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1060:

```
GATCTAGTTC CCCTGGAAAA GCTGCTGTAT TTTTAATTTT TAATGGAATG TAGCTTTTNN 60
AATCCTGTCA CTGGCATCAA CAAAAGGAAT TATACCATGA GACCTTATAG CTGTACTTAA 120
AAGCCATTCA GTTCAGCTAT TGGGAGTTCA TGATGAATTA GCATATGCCA GAAAGGTTGC 180
TAACCTTAAC ATCTGAGAGC AGTAACACTG ATTTTATCTG CTGTATGAGA CTTTGTGCAT 240
TTTACTTTGA AATAAAGATT TTTTCCACA CTGAAA 276
```

(2) INFORMATION FOR SEQ ID NO: 1061:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 276
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01202

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1061:

```
GATCCTGTTT CTNGCTCTGA GTNCTAGCTA GCCAGCTGTN TTCACACTGT AAACATTCAT 60
CAAGCTGTAC ATTTGGTGCA CTTTCTGTG TCATACCACA ATAAAAAAAA NCCTATCATC 120
TTACAAAAC AAGACACCCA AGTCCAGGCC CAAGGAGTAA GTACAAATAT TCCTGTTTCT 180
GANCCATTAC TGAATTGGC TCTNAAGNCT TGAGGTANCC TTATAGGTTA CTCATAGGGC 240
ATATACAAAT AAACNGTTT GTTTTCTTTT TNCAA 276
```

(2) INFORMATION FOR SEQ ID NO: 1062:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 275  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01203

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1062:

```
GATCTTCAAC GGATACTAGA AAATGAAAA GACTTGGAAG AAGCTGAGGA ATATAAAGAA 60
GCACGTTTAG TACTGGATTC AGTGAAGTTA GAAGCCTGAA ACTTTTCTCG TATGGGGTGG 120
TTTTTGCATT AAATCCTGGG GTCCATTTTA CAATCCATTA TTTTGGACCA CTGCTATGTG 180
TTCAAGTAGT ATGAGAATGT GATTGTTTTT ATCTGGTTAC ATATATATTT CTTTGTCTAA 240
TTTAATATGT CAAATAAATG AGTTCATCTA ATAAA 275
```

(2) INFORMATION FOR SEQ ID NO: 1063:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 274  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01204

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1063:

```
GATCTCACCT CTTCTCAGG ATGGGGAGCT CACTCCGAGA ACAGGAGAAA TCAACATTGC 60
AGTAACAAGG TAGAATGGTT TTGAAGAAGA AAAAACCTGC TTTCTGACTG ATTTTGCCTT 120
GAAGGAAAAA AGAACCTATT TTTGTGCATC ATTTACCAAT CATGCCACAC ANGCAATTTAT 180
TTTTAGTACA TTTTATTTTT TCATAAAATT GCTAATGCCA AAGCTTTGTA TTAAAGAAA 240
TANATANTAN AATAAAAAGT CTGTGCTGTT GAAA 274
```

(2) INFORMATION FOR SEQ ID NO: 1064:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 274  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01205

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1064:

GATCCAAGTT CCTAGACCTC ATGGCTGTCC CCTCCCACCA GTCACCTCCA CTGCACAACT 60  
 CGGGCGGGGG TGTGACACCT CTCCCCCACC NCCGACTCCG TGGTTTCCGT ATCGTCAACC 120  
 CTTCAGCCGC CGACCCGGGA GGGGTCTGGC CTACACTGGT CTTCCCCTTC CCATCAACTC 180  
 TTTCTGCTTG ACAATGTAGC AACCCAGGCC CCCCACCCAC GGTCTCTCCC TTTTTCCTCT 240  
 CCCTGACAAT AAAGTCTGAA TTTGTTCTGC NAAA 274

## (2) INFORMATION FOR SEQ ID NO: 1065:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 269  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01207

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1065:

GATCTATCCA TCCAATGTTG TCATTATATT TGACTGTGGT TCAACAGTAT TGC GTTGTCA 60  
 GACTAGGAAA GTTAAACGAA CAAAATGGTT TTAGTTTTGC TGAAGACTGG CCTTATTAAT 120  
 GGACAGCTTT CCTAACAAGA GATTATTAAC TTTTATCAGG TGTTAACATC TGTTTCAGGA 180  
 ACATGGCAGT ATGTTTACAT GTCAGAAGTT TTGTTTAATT CTATGGTATT TCTAAATTGA 240  
 CTTGTTTAAA TAAATTCAGC AAATGGAAA 269

## (2) INFORMATION FOR SEQ ID NO: 1066:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 269  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01208

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1066:

GATCTGGTTG GCATTTTCTC CCTGATGATG GGAGCGTCAT TCTTTTGTCT TCATGGTTAC 60  
 TTGTGTGATA TAACATACAT CTGTNAAAGA AAATCACTTC TTTCTAGGGG AGGGAGGTAG 120  
 AAAAGTATCT TTCAAACCTG GTTTTTNAGT TTGINTCTTG TCTTAACCTT GTGTNGGCTC 180  
 TAACTNAAAC ATGCTGATAT GTGTTTNCAN GANTTTTGGT TTAAGGANGT ATTGTATGGA 240  
 NGTCCACANA TTGGNAGGTN GTTCATCTN 269

## (2) INFORMATION FOR SEQ ID NO: 1067:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 269  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01209

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1067:

GATCGATTAA GGAAGGTGGT TATGGCTGGG TGTTTCAGGG GTTTTTTTTGG GTTTNTTTTT 60  
 TTTTTTCTTT GTCTTTTNAA CCTAAAGCTG TTTAAGTTGA AGCATCTCTNA GATGTTTGGG 120

GGGAAACATC CTCTNAAAAT GGGNCCTTGT GCTTGCNTTC TGGGGAGGCG GTCCTGAGCA 180  
 GGTGANTCAT ANGGCATTTA TGCATATGTN ATATGNNGGAC TGNACCCACC TTTCCCCCN 240  
 AGCCTTTGCC TCTTGGGTTG TTGTNCTGN 269

(2) INFORMATION FOR SEQ ID NO: 1068:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 268  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01210

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1068:

GATCCTCTTT GTTTGTNCAA AGGACCAGTT TTCCTAGGCC AAAGAAGTCT CTNCCCCATG 60  
 TAAGNCCTAT GCCTTNAAAT ATCATGCACC ATGACCCACA GCCATCTGGT TATGTCTTAT 120  
 TTTTTTCCTA AAAGATAATG TTTATNNTTA AAAAGGAAGG ANGGAGCAAG TGAAGTTTCA 180  
 TTCTGCTCCA GCGGTGGGGG ANGCGCTGA ATCCACCTGN TTCTCCTTTT GCAACCGNCA 240  
 GCANGCAGCT TTTCTCCGGG CNNCAGGN 268

(2) INFORMATION FOR SEQ ID NO: 1069:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 267  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01211

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1069:

GATCTAGAAG GTGAAGAATT TTTTATGTA TATATAGACA TATCTATATA AATNGTCTGG 60  
 CTGAGGCAGG GCCTTCANCT ATCATTTGGT TAATAAATAC ATTTNAGTAT TTNCATTTCC 120  
 TACTGCCTGC AGAGTTTCAG GTGCTTGNG TGTGAAAGTC CTGTAGATGT GTGCAAATTT 180  
 AACGAAATGA AATTGTATGT GTAAAANTGT ACGATTTTCC ACTGTGCAAC TGTAATNAT 240  
 AAATAANANA TATTTTTNCT ATTCAAA 267

(2) INFORMATION FOR SEQ ID NO: 1070:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 266  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01212

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1070:

GATCCTAGTG ATTTTCAGCCC ATGCATTAAA CAGGAAACAA TAATAAATTT GTAGAATTCA 60  
 TATTTTTCTA AAGGGAACCT AAAAAGTCT GCTACATGTT ATGTACAAAA CTGGTTTATG 120  
 CCACATGGAC AGAGAATCAC ANGTTTGGTT TTGGTACTTT NNGTTCCTCT TTGTATTTCAG 180  
 TTGTATAGAC CTNCCAAATT CAGAATGAGA NGAAAGCTGT CTGTATCAAA CCATTTTANGC 240  
 ANTAATTGTT ATATNTNANA GCTAAA 266



## (2) INFORMATION FOR SEQ ID NO: 1071:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 266
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01213

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1071:

```
GATCCAAGTT ATACATGAAT AGAAAAAGAT GGTGTTAAAT TTGTGTGTAG GCTGGGAATT 60
CTTGCTGAAG GAATTGGAGA AAACCTGTTG CTGCAAAATT TTACATGTTC CAGATGGAAA 120
GGGAAGTCTA AGCNCCTTTT AAAACAATTT TTTTGTGTAT TTAATTAAGC AATTNCAGTT 180
ATCTGGGATT TTTGGGTCAG AATTTTAAAT TCTGTTTGAT TCTCCATATT CCAGTNAATA 240
AAATACAAAA GCATTGTNTT TTAAAT 266
```

## (2) INFORMATION FOR SEQ ID NO: 1072:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 265
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01214

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1072:

```
GATCTTCAAT TCCTTGAGTC TGAGCTTGTG GGTGGAATTC TAAATTTGTA TCATAATCTG 60
TCTTTTGTGA AACATTTTGA AAATATGTAT ATATAATATT GTATATGCAA ATTGTGTTGT 120
TTCACCTGTA AAGGGAAAAG GCTTATTTTN CTTTATATTT CTGATAACTT GTTTTGCATA 180
TGACCAGCAC TGACTGAAAG GCATGTGTAG CTGCAAACAC TGTTGCTTTT TTTGTGAAAT 240
GNAAATAAAA GTATTTAAAT ACAA 265
```

## (2) INFORMATION FOR SEQ ID NO: 1073:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 265
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01215

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1073:

```
GATCGTGCCA TTGCACTCCA GCCTGGGTGA CAAGAGCAAA ACTCCATCCC CCCTGCCCAA 60
AAAAAAATN AATTTTCA CA GAAAATTAAT AGCATAGGTA TTATNATCCT CATTTTACAG 120
AGAAAGAAAC AGCCATAGAG AAAAATGACT TGCTCACAAC ACAGGCAACT TTGACTCTAG 180
AGATANCACT TATTACAGTA AAATCCCTCT TCAGNCACAA AATACATGAT TATCTTAAAC 240
ACATTCTTAA TAAAANTTTA NCAAA 265
```

## (2) INFORMATION FOR SEQ ID NO: 1074:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 268
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS01216
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1074:

```
GATCAAAGAT TGTAATAATA ATTTTGTAATA TTGTAAGCAA AAAGTTATTT TTATATTATA 60
TACAGTCTAA TTGTTTCATCC TAATTGTTCC TGTTCATC TAGTCAGAGA TTCAGTAAGT 120
NCCTTGGAAC AATATTGAAT TCTCTTAGCT TGTGTGTGTT TCTTTAATAT TTGAACTCAA 180
GTGGGATTAG AAGACTATNA NNNTACATGT ATGTTTCAGG ATATTTGACC TGTCATTAAT 240
AAAAACAAAC AGTTTTACAG TGCCTAAA 268
```

(2) INFORMATION FOR SEQ ID NO: 1075:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 305
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS01217
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1075:

```
GATCTCCATG TAGTCCATAT GAAACCTGCA GAGTGATTTT CCAGAGTGCT CGATACTGTT 60
AATTACATCT CCATTAGGGC TGAAAAGAAT GACCTACGTT TCTGTATACA GCTGTGTTGC 120
TTTTGATGTT GTGTTACTGT ACACAGAAGT GTGTGCACTG AGGCTCTGCG TGTGGTCCGT 180
ATGGAAAGCC TGGTAGCCCT GCGAGTTAAG TACTGCTTCC ATTCATTGTT TACGCTGGAA 240
TTTTTCTCCC CATGGAATGT AAGTAAACT TAAGTGTGTTG TCATCAATAA ATGGTAATTC 300
CTAAA 305
```

(2) INFORMATION FOR SEQ ID NO: 1076:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 263
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS01218
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1076:

```
GATCCTGTAA GTTGTCATCA AAATATGATT TAGAAATATT GGCCAAGGTG TTGCTTTAAC 60
TGAGGAGAAA AGAAAGCACA CTGCCTAAAT GTGTAAAAGA AAAATGCAGA GGTTATTAAA 120
ATGTAAAGAA GTAACAATCT TTGGATTTGT CTATACATAT ATATATATAT ATATNGNTTT 180
GCCTTAATAT ACCCCCTTTT TTGTTTGTGA CTTTCAACTG TAATCAGTTA ATAAAGTATT 240
TATTCTCTGC ATTCAGGTTT AAA 263
```

(2) INFORMATION FOR SEQ ID NO: 1077:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 354
  - (B) TYPE: nucleic acid

- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS01219
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1077:

```

GATCGACAGC AAGCAATCCT TAAGGGACTT TCAGAACTGA GACAGGGCCT TCTCCAGAAG 60
CAAAAGGAGT TGGAAAGTAG TCTCCTGCCT TTAGCTGAAA ATCAAGAAGA GAGTTTGGT 120
TCTTCATTTT AAATGTAGAA AATCAAATCC TTCACATTG AATTGTGTCT TCCAAATTAT 180
AAAATGTGCT CACTGGCTCA ACTGTATTTT TCAAATAGCC TAGATTTACT TATTTTTTTA 240
ANNGNNCATT AAAAAGTTGT ATACTATGTA GTAAATGCT GTACTTGTC TATACAATAA 300
ANCAGATACT TCTTTTGTAA AAGCTTAGTA GTAAACNCC ACCNNNNNNN NNTN 354

```

(2) INFORMATION FOR SEQ ID NO: 1078:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 260
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS01220
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1078:

```

GATCGTGCCT GTGAATAACC ACTGCACTCC AGCCTGGGCA ACATAGTAAG TAAGACCTTG 60
TCTCTTAAAA AAAATACATT CTGAAGAAAG TTCTACTTAT GANTACATTT TATTTATAAC 120
AAACTGGTGA AAATTTTAGA CCAAACCATG TCTTTCTGGG TTGTAGTGAT TAAAAAATGG 180
TTAAGAGAAT GTTCCCTATA CAAGGCATAT GTTATTAANC ATGAAATTTA GGNTTAGTTT 240
TCTCTTTGAA NNTCCTTTTN 260

```

(2) INFORMATION FOR SEQ ID NO: 1079:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 260
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS01221
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1079:

```

GATCCCGAGA CTGTGTCTCT CTTGGCTGAA NACACTNAGG TGCTCCCATC TGTNCGTGGC 60
CCATGANCTG GGATGGTCCT CCAGCTGCCC ACAAGGTCCG CCCCTCTNTC TCTGCACCAC 120
CTGTTTGCAT AAACACACTT TGCTACAATC TTGCTAGTNC GTTTTCTTAA AAGATAATCT 180
ATTTACTGTA AAAATAAATT GGACTTTGCA AAAGCTTTTA GAAGGAAAAG AAAGAGGATT 240
AAAGAGAATT GCTGGTGAAA 260

```

(2) INFORMATION FOR SEQ ID NO: 1080:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 259
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01222

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1080:

```

GATCCAAATT TCCTTTTGAT ATTATTTTAC TTCTGCCTGA AACATTTTCT TTAACATTTT 60
TTATAGTGTT GTTTTACTGG TGATGATTTT TTTTCAGGTTT TAAGTGCCTG AACAAAATCT 120
TTATTTTACC TACATCTTGA AAGATAGTTT CTCTGAGTCT ACAATTCCCA GCTGACAATG 180
TTTATCTTCC AGTACTTTAA AGATGTTGCT TCATTATCTG CTAATTTNNT TTGTTTCCAA 240
TAAAATGTTT GCTGGCAAA 259

```

## (2) INFORMATION FOR SEQ ID NO: 1081:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 316  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01223

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1081:

```

GATCTGCGGT GAAGCCAAGC CGCAAGGTTA CAAGGCATCC TCACCAGGGA TACCCGCCTG 60
CTGCTCCCAG GTGGCCTGCG GCATNGCTAT GCTCAAGGAC CTGGAAACCC ATGCTTCGAG 120
ACAACGTGAC TTTAATGGGA GGGTGGGTGG GCCGCAGACA GGCTGGCAGG GCAGGTGCTG 180
CGTGGGGCCC TCTCCAGCCC GTCCTACCCT GGGCTCACAT GGGGCCTGTG CCCACCCCTC 240
TTGAGTGTCT TGGGGACAGC TCTTTCCACC CCTGGAAGAT GGAAATAAAC CTGCGTGTGG 300
GTGGAGTGTT AGGAAA 316

```

## (2) INFORMATION FOR SEQ ID NO: 1082:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 259  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01224

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1082:

```

GATCCAAATG GATTACCAAGT GTGCTACAGA CTTCTTATTA TAGAACAGCA TTCTATTCTA 60
CATCAAAAAT AGTTTGTGTA AGTTAGTTTT GGTTACCATC TAAAATATTT TTAAATGTTC 120
TTTACATAAA AATTTATGTT GTGTTTTTAAA ATCCTTAGGG GCTTTATCTA TTTTCTAAG 180
TCAGTTAACT GTACTTCTAA AAAAAGTATT TTGTATCTAC TTTTGTAAC TCGTCAGAAT 240
AAAATATATT GAANGCAA 259

```

## (2) INFORMATION FOR SEQ ID NO: 1083:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 258  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01225

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1083:

GATCGCTTCA CATNTATAAA AAAAATAANA ATACCCGGGC AAGCTTTCTT TGAAGNTGCT 60  
 ACAGCATTAA ATATCGAGAA TTTTGGGTGG GAGAGAGCAG TTCAATTTTC TTTACCAGCT 120  
 GAAGTTCATT TATGATACAA AAGAGATGAA ATGGAAGTGG CAATATAAGG GGATGAGGAG 180  
 GCATGCTGGC AACCTTCTT TTAAGATGTG CTCAATTTGT ATAANTGGTG TTTTCATGNAA 240  
 TAATCATCTT GGAGGAAA 258

## (2) INFORMATION FOR SEQ ID NO: 1084:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 342  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01226

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1084:

GATCGCCGCC CAGGGTTTCA CGGTGCGAGC CATCTTGCTG ACGTCTGNCT GNCAGTCTGTA 60  
 TGAAGTCTCG ACCCTAAGCC CAGGGTCTGG CCTTGAAAGC TCCGCAGAAA TGATTCCANA 120  
 ACCCAGGGAG CAACCACTGG CCCTACCGTG GGAATTACTC CCTCCTCTCC TTTGAGAGGC 180  
 CCATGTGTCTG CTGGGGAGGA AGTGACCNTT TGTGTAAGT TAACCGAAAG TTTTTTCAAA 240  
 AATCCTAGAT GCTGTTGTTT GAATGTTACA TACTTCTATT NNGGCCACAT CTCCNTCCA 300  
 CTCCNTGCT TAATAAACTC TAAAAATCCA CTTGTATTAA AA 342

## (2) INFORMATION FOR SEQ ID NO: 1085:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 260  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01227

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1085:

GATCTAAGAA GANACTAGCC TTGTGGAGTA TATAGATGCT TTTCATTATA CACACAAAAA 60  
 TCCCTGAGGG ACATTTTGAG GCATGAATAT AAAACATTTT TATTTTCAGTA ACTTTTCCCC 120  
 CTGTGTAAGT TACTATGGTT TGTGGTACAA CTTCATTCTA TAGAATATTA AGTGGAAGTG 180  
 GGTGAATTCT ACTTTTATG TTGGAGTGA CCAATGTCTA TCAAGAGTGA CAAATAAAGT 240  
 TAATGATGAT TCCAAATAAA 260

## (2) INFORMATION FOR SEQ ID NO: 1086:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 256  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01228

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1086:

GATCCTTAAT GTTTTGATTN TTGTTTTCTG AAATTGGATT TTATTTTATT TTATCTTATA 60  
 ATNNCAGTTC ATCTAAATTG TGTGTTCTGT ACATGTGATG TTTGACTGTA CCATTGACTG 120  
 TTATGGAAGT TCAGCGTTGT ATGTCTCTCT CTACACTGTG GTGCACTTAA CTTGTGGNNT 180  
 TTTTATACTA AAAATGTAGA NTAAAGACTA TTTTGAAGAT TTGANTAAAG TGNNGNNGTT 240  
 TGCATTACAC CTCAA 256

## (2) INFORMATION FOR SEQ ID NO: 1087:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 254  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01229

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1087:

GATCTTTTAAA CTCTGGCTTC TTCCTCCTCA ATCTTGACAG AAAAAGGGTG CAGACGTCTG 60  
 GTTCAAAGAG TTGGATATCA ACACTGATGG TGCAGTTAAC TTCCAGGAGT TCCTCATTCT 120  
 GGTGATAAAG ATGGGCGTGG CAGCCCAAA AAAAAGCCAT GAAGAANGCC ACAAAGAGTA 180  
 GCTGAGTTAC TGGGCCCGAGA GGCTGGGCC CTGGACATGT ACCTGCAGAN TAATAAAGTC 240  
 ATCAATACCT CAAA 254

## (2) INFORMATION FOR SEQ ID NO: 1088:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 297  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01230

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1088:

GATCCATCCC ATTCACCCAG TGACTTCTTT TTGCCCAGGC CGGGACTTTT TGCATCAGTN 60  
 ACGTTAACCA GATGACTTTG CCTGTAACCA AACCTCATGC ATCCACGTTT GCGTCTGGGG 120  
 AGGAATAAAA AGACATCGTT CCCGCTTCTN CGTTTTGTNA TTCCTACTGC CGCCATAGGA 180  
 ATTATTTTCG TGGCTGANCG TTACCAGCAC CCCGAGANCA CATTTTGATN GANTCAGAGT 240  
 AGAGGNCATG GCTGTNTTCT NAAAANGCCN CGCCATGNAA NTGCCAATCC CCTTTTN 297

## (2) INFORMATION FOR SEQ ID NO: 1089:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 253  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01231

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1089:

GATCGCATTT TTGTAAGA ACCATGTGTG TTTATATGTG TTTATATATA TACTTGTGTA 60  
 TGCAAAGGTA AAAGTCTGAA AGGATATATG CTAAGTGTTC ACAATGATAA CCCCCAGGA 120

ATGGGATTGG AGGGGAGGGG GCTTCTGTGT TTGTNATGTA TGCTGGGTGG GANNTTGTGC 180  
 TTTTATTTCT ATATTGTTT AATTTTTTTTA CAGTATGTAT TATTTTGTGA ATAAAAATTT 240  
 TAAAAATTC AAA 253

(2) INFORMATION FOR SEQ ID NO: 1090:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 252
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01232

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1090:

GATCTGCCTT GAAATTTAAA AATCTAAATA GCTCTTAGTT GAACAGGGGA GATATAAACA 60  
 AAGTTTGCAA AATTCCTAAA ACACGATGAT AATAAACATC ATACATCAGA NTTTTGAGAT 120  
 ATAATTAAAG CAGTACTTAG AAGAAAATGT ATAGCCTTAA ATATTTAACA TCAGTAAAN 180  
 TGANAGGNTG AAAATTGGGA TTAAATTCC CAACTCAAAG AGCTAGAAAN NGANTTACAA 240  
 AGCAAGNNGA AA 252

(2) INFORMATION FOR SEQ ID NO: 1091:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 251
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01233

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1091:

GATCTCATGG GCTTTCCTGG AGGAAAGTTT TTTTGTTCG TTTTTTTTAA AGACTTGAAA 60  
 CTTGTAAC TG AGATGCTGTA GTTTTTTGCC ATCTGTAGTG ATGTAAAGAT TTAAACCTGA 120  
 GAGACTTTTN CTTTGTTAGA TTATGAGAAG NACTAGATGC TTTAGGTTTC ATTTTCCCTT 180  
 AATTGCNATT CTTGTGCGCT NGTTGGGNGG GAACTGTTAT TTTCCNCAAT AAAAAGTAAG 240  
 TCTTATCGAA A 251

(2) INFORMATION FOR SEQ ID NO: 1092:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 250
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01235

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1092:

GATCATTA AAA ATCAACGTTA TCTAAGACAG CTGTATCACA TTTTGGGAT ACATCATGGT 60  
 ACAGTCAGAA GCATATAAAA TTATGGTTCT GCTTGTCAGN CNCATACAGA ATCCAATACA 120  
 TTTTGACAAA CTGCCATTC CTGCAAGTTA ATGCCCTTTT TGAAGCTTCA TTTCTCTTG 180  
 TAAAGTACAG ATAGGAATCA TTATTTTGTG GAGTTGCTGT AAAGATTAAN TAAAGGTGAA 240  
 TGAAAATAAA 250

## (2) INFORMATION FOR SEQ ID NO: 1093:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 248
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01236

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1093:

```
GATCCCAACA AAGATACAAG TGAAAACGCA GAAGGTCAAA GNGATGAGAA CAAGGACGAC 60
TATACAATCC CAGATGAGTA TAGAATTGGA CCATATCAGC CCAATGTTCC TGTTGGTATA 120
GACTATGTGA TACCTAAAAC AGGGTTTTAC TGTAAGCTGT GTTCACTCTT TTATACANNN 180
CNAAGAAGTT GCAAAGANTA CTCATTGCAG CAGCCTTCCT CATTATCAGA AATTAAAGAA 240
ATTTCTGN 248
```

## (2) INFORMATION FOR SEQ ID NO: 1094:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 248
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01237

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1094:

```
GATCACTGNC AAAGTGGGAG CACTAAGGGG TGGGTGGGGA AGTGAAATGT TAGGCGATGA 60
ATTCTTGAGC ACCTTGTTTT TNTNCCAAGG TTCGTAGCTC CTCTNTGCCC TTCCAAGCCT 120
GTAACCTCGG AGGACTATCT TTTGTCTTNN ATCCTTTGTN TTGTTTGAGT GGGNCAGCCC 180
CAGAGGAAGT GATAAGCAAA TGGCAAGTTT TTAAAGGAAG AGTGGAAAGN NCTGCAANTA 240
AAANNCCN 248
```

## (2) INFORMATION FOR SEQ ID NO: 1095:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 246
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01238

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1095:

```
GATCTCCATG CGGTCCCTGG AAGTACCCAT TGAAACATGC GTATTTGTGT ATAGCAGAAC 60
TCTGAAATAA TATTCTGACA GCAGTTATCT CTGAGGAATT GGGTTATAGG TGATTTTCCC 120
TTTCCGCATG ATAAATTTAT GTAATATTTG ACTGACTTGA CCGTAAGTAT GTTACTTGTA 180
TAATAAAAGG AAAAAAGGTA CTTCTATTTT GAAAAATAA AAATAAAAGC CTTTGGGTTC 240
TTGAAA 246
```

## (2) INFORMATION FOR SEQ ID NO: 1096:

## (i) SEQUENCE CHARACTERISTICS:



(A) LENGTH: 315  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01239

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1096:

```
GATCCTGTCA GGGNGTCCCC CATGCCTGGA AGAGGAGCTG GTGGCTGCCA GCCCTNNGGC 60
CCGGCACAGG CCTGGNCCTT CCCCTTCCCT CAAGCCAGGG CTCCTCCTCC TGTCGTGGGC 120
TCATTGTGAC CACTGGCCTC TCTACAGCAC GGCCTGTGGC CTGTTCAAGG CAGAACCACG 180
ACCCTTGACT CCCGGGTNNN NNNGTGGCCA AGGATGCTGG AGCTGAATCA GACGCTGACA 240
GTTCTTCAGG CATTTCTATT TCACAATCGA ATTGAACACA TTGNCAAAT AAAGTTGAAA 300
TTTTACCACN TGAAA 315
```

(2) INFORMATION FOR SEQ ID NO: 1097:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 245  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01240

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1097:

```
GATCCCGGGA GCCTTGCCGC ACTGCCTTGT GGGTGGCTTG GCGCTCGTAA TTGCTTCCTG 60
TGAACGCCTC CCAAGGACGA GCCCAGTGTA GTTGTGTGGC GTGAACTCTG CCCGTGTGTT 120
CTCAAATTCC CCAGCTTGGG AAATAGCCCT TGGTGTGGGT TTTATCTCTG GTTTGTGTTT 180
TCCGTGGTGG AATTGACCGA AAGCTCTATG TTTTCGTAA TAAAGGGCAA CTTAGCCAAG 240
TTAAA 245
```

(2) INFORMATION FOR SEQ ID NO: 1098:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 245  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01241

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1098:

```
GATCTGCAGC AGCCGAAAAT GCGTTNTGGT AAACCTGGCC TCAAATTCAT ACTACCATAA 60
CTGTTTTTAT ATATTGCCAC TAATTTTGAC TGGATTTAAT AGCACTTTAT TGTACANCTA 120
CAAAAAAAAA TATATNCCTA GAATNGTNNC CAGTGTAATT CCTCTAATGT CCTGGTGCCT 180
TTTCATATAT TTCCAGNATT TTNATACTAT ATNGGTATTT CCTTTGTATA AATNGATNGA 240
TNAAN 245
```

(2) INFORMATION FOR SEQ ID NO: 1099:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 251  
 (B) TYPE: nucleic acid

(C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01242  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1099:  
 GATCTTAGGC TTTTCACTTT TTTTGTGTTT TTTTGTGTTT GAAAGAAAGA AAAAAATACA 60  
 ATTAACAAGC CTCTTTTGTA AATGGGTTTC CTTTCTATGT ATAAAATCGT GGTGGTCCCT 120  
 TGTGTTTACA TGTTTCATGCT GTGTAATTTT GAGATGTTAC TGAGATATGT TCTGAACATA 180  
 ATGTGCATTT TTTNCTGTAC AGATGAAATG GGAGANTTTA ATAAAGAGTT TGCAGGTTTT 240  
 TNCTTGTTAA A 251

(2) INFORMATION FOR SEQ ID NO: 1100:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 247  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01243  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1100:  
 GATCCAGCCC TGAGCATCAC CCAAGTGCCT GATGCCTCAG GTGACAGAAG GCAGGACGTT 60  
 CCATGCCGAG GCTGCCCCCT CACCCAGAAG TCTGAGCCCA GCCTCAGGAG GGGCCAAGAA 120  
 CCAGGGGGCC ATCAAAAGCA TCGGGATTG GCATTGGTTC CAGATGAGCT TTAAAGCAA 180  
 ACATAGCAGT TGTTTGCCAT TTCTTGCACT CAGACCTGTG TAATATATGC TCCTGGAAAC 240  
 CATCAAA 247

(2) INFORMATION FOR SEQ ID NO: 1101:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 266  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01244  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1101:  
 GATCTTCCCT AAAGAGCAGN GGACCANATA NGAAGAGGAA AATTTCTACC TTGAACCGTA 60  
 TCTGAAAGAG GTTATTCGGG AAAGAAAAGA AAGAGAAGAA TGGGCAAAGA AGTAATCATG 120  
 TAGTTGAAGT CTGTGGATGC AGCTGTTATG AAGATGGTTA AACTTGAANC AAACAATTTT 180  
 AAGANTTATT TNGTCTGAAN GATGTTTTAC TTAAATAAA TGTCTCNTTG NAATGGCTGG 240  
 AGGTTTTTGG GNGCCAAACC NTTAA 266

(2) INFORMATION FOR SEQ ID NO: 1102:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 256  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01245  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1102:  
 GATCCCAGGT CCAAGGAGT GACAGGGGCT TCCTCCCACC TTCTGTCCTT GTCCAGTNAT 60  
 GTAAATAATG TGCTTTTCCT CTCCCCGAGT CTTTTTTTTT AAAACCTACC GTGGTTCCTN 120  
 AGCTAACTGC ATTCCCTACC CAGGCAGAGA CTGTCCTATG CCTCGNGCTT CCAAACGAGA 180  
 CTCAGACCGC GACANAGCCA CCGTATTTAT GGATTGCCAA ANTAANTAAN GCCCAAANCC 240  
 ATCGGTCTCT GTGAAA 256

(2) INFORMATION FOR SEQ ID NO: 1103:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 240  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01246  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1103:  
 GATCCTGGTG CTGGACAACG CTGCCATTGT CTGCAACTTT GGCAGTGAGC TCAGCCTGGT 60  
 GTATGTGCCC TCTGTGCTGG AGAAGCTGGA CTGAGCGCAG GGCCTCCTTG CCCAGGCAGG 120  
 AGGCTGGGGT GCTGTGTGGG GGCCAATGCA CTGAACCTGG ACTTGGGGGA AAGAGCCGAG 180  
 TATCTTCCAG CCGCTGCCTC CTGACTGTAA TAATATTAAA CTTTTTTAAA AAACCATAAA 240

(2) INFORMATION FOR SEQ ID NO: 1104:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 245  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01247  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1104:  
 GATCTGGGCA GTNAGATAGT GCTCTATGCC TAAGGTGAAG CCACACTAGG NTGAAGCCTC 60  
 ACTTCCCTGT TTAAGCAATG CAGTGCCTGC TGCCCGTGTG CANGAAGGTA CAGCCATTCA 120  
 GATAAGTGGA ACTATTGAGT TACATAAAGA AAGTAGATTT GCANTNNTCN GGCAGACGTT 180  
 TATACANCAC CACGGTGCTT TTATACATTG TNCTNATTTT AATAAACTG ANGTTCTATG 240  
 TGAAG 245

(2) INFORMATION FOR SEQ ID NO: 1105:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 240  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01248  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1105:

GATCTGGCTT CCATTGGCC CCCTCATTTT CCAAATGTTT AAATGTATTG GATTTGGATT 60  
 CTCAATGTAT AAGTTGCCTT ATCTGTTAAT GTCTATCTTC TGTCTCTTTA ATTTTGTATA 120  
 TCTGCTGTTT TGCTTTTGGG TACATTTTCT AATTAGAAGT CACATGATAA ATATAATCAG 180  
 TATAGTAATA ATACCATAAT GTGCACATAC TCAATAAATA AATGACTGCA TTGTTGTAAA 240

(2) INFORMATION FOR SEQ ID NO: 1106:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 240
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01249

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1106:

GATCCATTNN TCCNTGTAAC TNGGAGAAAG GCCAGTCCCT GTAACGGGGC AGCCCTCTCT 60  
 TTCCCTCGGT CAGCTCGTGT NAATCCTGGN ACCTCTTCCG GTCGGCTCTG CCCGCTGTTC 120  
 TGGGGTCGAC TGCCACGACT TTNATTCAA GAAGCTTCCT CCAGGCGGNA GCGGCTATTT 180  
 TCCCTAAATN AGAATTGTTA CATTGCAAT NGTTGAATAA AATATTTNGC GGTCCTTAAA 240

(2) INFORMATION FOR SEQ ID NO: 1107:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 239
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01250

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1107:

GATCTGAAGA AATGATGGAA TGGGGAGTGT AGAGAAATGA GAGTCTGTAT GATTCTGGAA 60  
 CAGAGACATC AGAAGGAAAG ACTGGTGAAA AGATGTATCT TTGTATATTA ATAGCTGTAA 120  
 TGTAGCTTCC TGATGCTTGA CTAATTGAGG TGTTAATTCT GACTTGAGAA TCTTTTTCAT 180  
 GAATGATTTT AAAGAAAAAT TTGGATTTTA AAGGTATTAA AATATTTTNG TTTTGTA 239

(2) INFORMATION FOR SEQ ID NO: 1108:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 239
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01251

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1108:

GATCCGCAGT CGAAAAAGAA CAAGCCACAG AAACGGGCTC GTCGTGCCAG GACACAGCAG 60  
 TGTCTTTCAA AAAATCAAAA CCAGAAGNTT TATCANCAGC AGGAAGNATG TGGGCTCTGT 120  
 CAAGTTCACC GTCACCATCA AGCCACTGCT GTGGAAGAGT TTGNCAACAG GNCAGTGTCA 180  
 CAGCACANCT TCAGANGCAG CATCCGNGTG TCGTCCAACA GANGNCCTNG TCCGGTCAN 239

(2) INFORMATION FOR SEQ ID NO: 1109:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 238  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01252  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1109:  
 GATCTATGTC CGGTGTGGGT TTTTGTCTC TCGAGTTTGT TCTCTAATAA AGGCCTTTT 60  
 TGTTTCAAAT TACATACGCT TTTTACTGCA CAATTTTGT ATTGACCTTA TTTCAACTGA 120  
 AGCGATTATT TCCAGCAGGT TTAATTCGA CAATAAGATA TATTTNAATA GTTTTACCTT 180  
 TCGCTAGAAT TTTGTATTGT TTAAAACAGT AAATGAATAA NTTTGCTGAT GATTCAAA 238

(2) INFORMATION FOR SEQ ID NO: 1110:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 238  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01253  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1110:  
 GATCAATGAA ATGCACATAA ATNAACTGGT TCCATCAAGA CTGTGCACCC AGGCCTTACA 60  
 GTCCAACCTT TTTCTGTGTC TGGCTAATAT TTAAAACCTAG AAAAATATT CCTAATCAAC 120  
 ATGGAGTGGA GAGTTTATTC ACTGTCTTAT CTGCAGAAAT TTGCTGTCAA TATATAACCC 180  
 GCCTGCAGTG GAAAGTGAT AGTGTTTTGT AATAAATGGC CTGATGCTAA TGTGTAAA 238

(2) INFORMATION FOR SEQ ID NO: 1111:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 237  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01254  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1111:  
 GATCTACCGG GGGCTATTAG TTTCAATGTA GTGATGAACA CAACTATAT TTTGAGTTCT 60  
 CTGCAGCAAG TGGAATGTGG TATGAAAATA TCTGATATTT ACAAAGATGA TACTGCTAAG 120  
 TCAGAGTCAC GTTTATTGCT AATATGATGG TGGAGTGTG TCTTCATTCA TAATGAAGGG 180  
 AAATGTTATT TTAAATAGNG GTTAGTGAAA TAAAANTAAN CCTATTTTCT AANCAAA 237

(2) INFORMATION FOR SEQ ID NO: 1112:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 268  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01256  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1112:  
 GATCTGGAGC ATTTGAGCAA GTTTATAGAA GAACATGCCA CAAAAGTGAG CAGGACCAAG 60  
 GAAGAGCTTT GAAGGCCTGA GGTCTGCGNA AGGTGGGAGG AGGCAGACGC CCTGCGTGGC 120  
 CCATGGTCGG GCGCTCCACG CCGAGGCCGG CAACAAACGA CAGTATCTCG GATTCCTNTT 180  
 TTTTTTTTTT AAATTTTNA AACTNNGGGG TTNCACTNCA NGNTCTGAAT ACTGANTANC 240  
 CATGAATNCC TGAATAGTTT AGNCCAGN 268

(2) INFORMATION FOR SEQ ID NO: 1113:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 236  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01257  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1113:  
 GATCAGCGCT GAGGACGGNC TCAAGCATGA GTATTTCCGC NAGACCCGNN NCCCCATCGA 60  
 CCCCTCCATG TTCCCCACGT GGCCCGCCAA GAGCGAGCAG CAGCGTGTGA AGCGGGGCAC 120  
 CANCCCGAGG CCCCTGAGGG AGGCCTGGGC TACAGCCAGC TGGGTGACGA CGACCTGAAG 180  
 NAGACGGGCT TCCACCTTAC CACCACGAAC CAGGGGCCTC TNCNGCGGGN CCNGGN 236

(2) INFORMATION FOR SEQ ID NO: 1114:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 235  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01258  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1114:  
 GATCTGTTGA CTTCCCTGGG TAGGACACTG CCACCTCTGG GCTCAGGTCC TNATGCCTCC 60  
 AAATGGCATC TAGAGTTTGA GCAGCCTTCT TGGCTGCAAG GCAGGCCTAG CCTGTGGCAG 120  
 CGGGCTAGGG CCCGCAGAGC ATTTGGTGCC CCTCCATGTT GCAATGCAAA CACCTTCACC 180  
 ACTGGGGCAG TGGGGAGAGA TGGCTATATT AATAAAATAA CGTGTGTCTT TCAAA 235

(2) INFORMATION FOR SEQ ID NO: 1115:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 235  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01259  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1115:  
 GATCATNATT TTNCTGCGT AGTTGACAGA CTTAGCATAT TAGTTTTTNN TACTCCTACA 60

```

AGTGTAATTT GAAAAATCTT TATATTAAAA AAGTAACTG TTATGAAGCT GCTATGTACT 120
AATAATACTT TGCTTGCCAA AGTGTGTTGN NTTTTTTGTN GTTTGTTTGT TTGTTTGT 180
TTGGTTCATG AACAACAGTN TCTAGAAACC CATTTTGAAA GNGGAAANTT ATTAN 235

```

## (2) INFORMATION FOR SEQ ID NO: 1116:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 234
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01260

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1116:

```

GATCACAATT NGCTTCATGA ATCAAGGTGT GGAAATGGTT ATATATGGAT TGATTTAGAN 60
AATGGTTACC AGTACAGTCA AAAAAGAGAA AATGAAAAAA ATACAATAA AAGGAAGAAA 120
CACAACTTCA AAGATTTTTTC AGTGATGAGA ATCCACATTT GTATTTCAAG ATAATGTAGT 180
TTAAAAAATA AAAANGGNAA AAACNTTGTT GNAANTNCCN CCTTNCCTC NGGN 234

```

## (2) INFORMATION FOR SEQ ID NO: 1117:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 234
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01261

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1117:

```

GATCCCCCGN TCAGCNCNA AAGTGCTGGG ATACAGGCAT GAGCACCACG TCCGNCTAGA 60
CTTTACCTTT CTAAGAAAT TGTTTACTGG ATTTATAAGA AGTTAATTTT TGAAATNAC 120
ATATTTTGT NTGATAGAAA GAATGGAGCA AGTNGTGCCT ATTTCTCCA AGTCAGATAA 180
GGTTTCTAAA ATAAATAAAT TTCTAGCATA TAAAGGGTAG AGATAAACTC NNNN 234

```

## (2) INFORMATION FOR SEQ ID NO: 1118:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 233
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01262

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1118:

```

GATCACAGGT CTTCCCTGTG AACTTTGGTT TCTTTCTATA AATGTGTGTG GTTTTCAGCG 60
CTCAACTCCT GTCTTCAAAT GGTAGTAAGT NCTACTTCTA CTTCTGTCAT TCAGAACATT 120
TTATGTCAA TGATGTAATG CAGAAATNCT TGTGCATATT TGTAAGTGAA GGAAGCTTTT 180
TAGATTTATT TNNGTTTTTA ATAAATTC AATTCCTATT CTAACTGGT AAA 233

```

## (2) INFORMATION FOR SEQ ID NO: 1119:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 230  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01263  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1119:  
 GATCTNCTAT GCAGTTCCTGC CATGCNTCCT GTTGGTCTCT CTGTGTTCTT TGTTACTTGG 60  
 GTGCAATAGC AACTTCCCTA CCCCCTGCAT TCCATCTTTN ATGTTGTGTA AAGTTCTTCA 120  
 CTTTTTNTC TGAGGGCTGG GGGTTGGGGG AGTCAGCATG ATTATATTTN AATGTAGAAA 180  
 ATGTGACATC TGGATATAAA ATGAAAATAA ATGTTAAATT AAATGGAAAA 230

(2) INFORMATION FOR SEQ ID NO: 1120:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 237  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01264  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1120:  
 GATCTAAGTT AGTCCAAAAG CTAAATGATT TAAAGTCAAG TTGTAATGCT AGGCATAAGC 60  
 ACTCTATAAT ACATTAAATT ATAGGCCGAG CAATTAGGGA ATGTTTCTGA AACATTAAAC 120  
 TTGTATNTAT GTCATAAAN TTCTAACACA AACTTAAAAA ATGTGTCTCA TACATATGCT 180  
 GTACTAGGCT TCATCATGCA TTNGTAAATT TGTGTATGAT TTGCNNNTNT GNNNGNN 237

(2) INFORMATION FOR SEQ ID NO: 1121:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 234  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01265  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1121:  
 GATCTGGCCA GTTGTACTTT TAGCTCCAG AGGGAGAGTT GGTGGTATTA TGAGTTGAGT 60  
 AAAAACCATC CAGGGGA ACT TGAGGGAGCA GTCTGTTGCC AGTAATGTTT CTTGTGTGCC 120  
 ATTAAACCAC CTCCAGATGA GTGGAGGAAC ATCACTTTTT AATTTTTTAA TTGTATTGG 180  
 AATTGTTGCC GTGTACTAAG AACTTGACCT AAATAAAATC CCACAAAGTA TAAA 234

(2) INFORMATION FOR SEQ ID NO: 1122:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 232  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01266



## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1122:

GATCCTCAGG ACGCAGGTCA CATTACCTG TGGGCAGAGG GACAGGTCAG ACACCCAGGC 60  
 CCACCCCAGA GACCCTCCAT GAACTGTGCT CCCAGCCTTC CCGGCAGGTC TGGGAGTAGG 120  
 GAAGGGCTGA AGCCTTGTTT CCCTTGCAGG GGGGCCAGCC ATTGTCTCCC ACTTGGGGAG 180  
 TTTCTTCCTG GCATCATGCC TTCTGAATAA ATGCCGATTT TATCCATGGA AA 232

## (2) INFORMATION FOR SEQ ID NO: 1123:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 235  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01267

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1123:

GATCAGGAGG CATCATTGAG GCCAGGAGCT CTGCCCGTAA CCTGTATCCC ACGTACTCTA 60  
 TCTTCCATTC CTCGCCCTGC CCCAGAGGC CAGGAGCTCT GCCCTTGACC TGTATTCCAC 120  
 TTACTCCACC TTCCATTCCCT CGCCCTGTCC CCACAGCCGA GTCCTGCATC AGCCCTTTAT 180  
 CCTCACACGC TTTTCTACAA TGGCATTCAA TAAAGTGTAT ATGTTTCTGG TGAAA 235

## (2) INFORMATION FOR SEQ ID NO: 1124:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 238  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01268

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1124:

GATCGATGCC ACGTTCGTAA GGTTCTAAGT CCTTCTTGGC TCCTNATGTG GTCCCTCTCC 60  
 TCGGAAGAAC TGCCCAGCCA CGGGTTTTNA ACCACCTGT TGCTCCTNAG GTCGTCAC TA 120  
 TATCAACAGT CACAAACCCA ATGGCAATAA AGGCACTGAC GATAGCTGGC GCGCGCNACG 180  
 CCACACACCA TTTTNAGATG CCGTTGCAAT TAAATCTTGC CAACTGTCC TCCTGAAA 238

## (2) INFORMATION FOR SEQ ID NO: 1125:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 231  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01269

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1125:

GATCCCTGGC TGGAATGTCA TACCATTGAC CCATTTGAAG AGTTAAAGCT GGATTTGACT 60  
 GCTCTATTCT ACCAGGAATA TTGTTAGGGT AGCCTTTTAC CAGTTTCTAA ACANTNGTAA 120  
 TCATTTATTG ACTCAGCAAT TCCTCAGATA ACAGGTCAAA AGATGTACAG ATACATTNN 180

NAGTTTTCTT GCTATTAAAG GCACAAGAGT TTCCTTGTAT TTTGACTGAA A

231

(2) INFORMATION FOR SEQ ID NO: 1126:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 230
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01270

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1126:

GATCTACAGT CATGCTTTAG CATGGCTATG GAGCTAATTA TCAAGCTTAA AGGGTAACTT 60  
 TGGGAGGACT CCTCCCTTCA CTCCTAGTCT CCCTTGGAAG AGCAGTCCAG GCTCAGGGAA 120  
 GGGAAATGGAT AGGATGACAC AGTAAGTACA GAACTGAAG CTGTCAATAG TGAAGGAAAA 180  
 AGGGGAATTC TTCGTTGCTT TGCATTNAC ACATAAGTAC TTTGATTAAA 230

(2) INFORMATION FOR SEQ ID NO: 1127:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 229
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01272

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1127:

GATCCAAAAT TTATAGCATT CTTCTACCAC CACAGGGGCT CATATGACAT TAACAGACAA 60  
 GACACTTTTC AGAAAGACAG GTTGTCTTTT TGGGCCACAT CTAAGAAATC TTTGTCTAGC 120  
 CAAAAGCCAC AAATAATTTT TCATTTTTTG GCTTCTGGAA GATGTACAGT TAAATGTTAT 180  
 ATTTGGGACT GTTATCTAAT TTGATTAAAT TGCACCTCTAC AATATGAAA 229

(2) INFORMATION FOR SEQ ID NO: 1128:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 229
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01273

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1128:

GATCAGGGCT GAGGGTAAGG AAAAGAAGAG ACTAGGAAAG CTGGGCCCAA AACTGGAGAC 60  
 TGTTTGTNTT TCCTGGAGAT GCAGAACTGG GCCCGTGGAG CAGCAGTTTC AGCATCAGGG 120  
 CGGAAGCTTA AAGCAGCAGC GGGTGTGCC AGGCACCCAG ATGATTCCTA TGGCACCAGC 180  
 CAGGAAAAAT GGCAGCTCTT AAAGGAGAAA ATGTTTNAGC CCAGTCAAA 229

(2) INFORMATION FOR SEQ ID NO: 1129:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 227
- (B) TYPE: nucleic acid

(C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01274  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1129:  
 GATCCTTACT ACTGGAATTA CCGGGTTAA AGGAAATGCT TACCACTAAG ATGTCAGTAT 60  
 TCTCCTCATG GATATTTTCA ATCTCAATGT TGCCAGTCTA ATAGTATAGT ATGTGGTTGC 120  
 TTTACTGCTG TTCTCCCCAC CCCCCTGGAG TTGTGTCATT ATTTTAATGA ATGTGAGCTC 180  
 TTGACTTACT CTAGAATTCT AATACAGATA CTTTCTGCAC TAGTAAA 227

(2) INFORMATION FOR SEQ ID NO: 1130:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 227  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01276  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1130:  
 GATCCGCTTG GTGACGGGCG TCTTCCCAGA TGCTGGCGTC ACCGCTAGAC CAAGGAGCCC 60  
 TCTGGTGGCC CTGTCCAGGC ATAACAGAAG GCTCGCACTC CTGTCTTCTG GTCATTCTC 120  
 ACTATGTCCC CTCAGCTCCT ATCTCTGTAT GGCCTGGTTT TTCCTAGGCT ATGATTATTG 180  
 AGTGAGGATT ATCATAATAT TGAATAAAAA AGTAATTGCT ACCCAAA 227

(2) INFORMATION FOR SEQ ID NO: 1131:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 227  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01277  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1131:  
 GATCAGGATT GTCCTACAGT TGTAATAAAG ANTAGGTCCT GTTTATTTTG ACATCTNTTT 60  
 ACAAATGCAT TGTATTAGGG TGTGAATATT CTGAACCATC CTCTTGTTTA AAGTTTGGAA 120  
 ATTTTATTG TTAAATGTAA CATTTTAATG GTTGTAAATAA TTATTTGTAT AGATATGAAT 180  
 ATAGTATTTN ATTTAAGANA ATAACTTTG CATTTTGTGCA TNGTAAA 227

(2) INFORMATION FOR SEQ ID NO: 1132:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 227  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01278  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1132:  
 GATCTGAAAT TTGTGTATNC TAAAGTAATT TNGTTTTATG TATTGGAAGT TCACTTAAAA 60  
 ACTGGAAATA TTTTCTAGAA GGGTACCACA CAAAAGGAAT CATCTTTAAG CTGTTTAATT 120  
 AACCTAATAA AATAATNTGA TGGGGAAGGC ATTCTAATTG TTTCTGATTT TNNGAGTGGT 180  
 TCCTGCTAAN TCATCANTAT CANTACAGCT TGATTTGATT TAAGAAA 227

(2) INFORMATION FOR SEQ ID NO: 1133:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 226  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01279

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1133:

GATCTTAAAT GTTATATTGA TAACCATGCT CAGCAATGAG CTATTAGATT CATTTTGGGA 60  
 AATCTCCATA ATTTCAATTT GTAAACTTTG TTAAGACCTG TCTACATTGT TATATGTGTG 120  
 TGACTTGAGT AATGTTATCA ACGTTTTTGT AAATATTTAC TATGTTTTTC TATTAGCTAA 180  
 ATCCAACAA TTTTGTACTT TAATAAATG TTCTAAACAT TGCAAA 226

(2) INFORMATION FOR SEQ ID NO: 1134:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 225  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01280

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1134:

GATCTTTACC AAATTCCTGA CTCAGAGTTC CTCCCATTTN CTTCTGACTC TCATTTTATT 60  
 CTTACCTCTC ATTTTATTCT TATGATGTTT ACCATTTCTN TTCTCCTCAG TGTCCCTCTC 120  
 TGAGTGGTAA GAGTATGTTA ATAAGCCAGT NCTGAGACCG GAGCACGAGG CAACTGCTCA 180  
 ATGTTGGTCA TTGTCAGTGT TATTAAATGT AACTTAAGGG NAAA 225

(2) INFORMATION FOR SEQ ID NO: 1135:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 224  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01281

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1135:

GATCTGACTT AAAAACCAC CAGCATGCTC AATCCCTTGT NATCCTTATG GAATCTGTAT 60  
 GTTAACTCTC TGGGTGTTCA GGCTTCTATT TGACTGCTGT TGTNACCCTG TTTGCAAAAT 120  
 GAATATGACA CTCTGTGGAT TATTNCTCT GTAAGGCACA AGTNCTTCTN ATGATTANTT 180  
 TGACGTTTCA NGAGCAAAAG CAAATTNANA CTCTCTTCAG CAAA 224

## (2) INFORMATION FOR SEQ ID NO: 1136:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 223
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01282

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1136:

```
GATCCAATAG GAGACACCAG TTCCTTGA CT GANCCATGCC CCCACCTAAG TNACAAAATG 60
AGGGAAGTGG GGAGTTAGAT TTCAGAGTCC AGGCCCTAG GTTGGGACCC ACTCCAAATA 120
ATCTCCTCGG TGTGGGTNGT GGTTCTATAG AGGNATANAT GAATAATAAA CATTGTTAAA 180
NTATACGATA ATGNATAAAG TAATCCTTTC ATCANNTGTG AAA 223
```

## (2) INFORMATION FOR SEQ ID NO: 1137:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 222
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01283

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1137:

```
GATCCATCCG ATGGCCTACC AGCTGCAGCT CCAAGCCGCC AGCAACTTCA AGAGCCCAGT 60
CAAGACGATT CGCTGATTCC CTCCCCCACC TGTCTTGCAG TCTTTGACTT TTCCTTTCTT 120
TTTTTGCCACC CTTTCAGGAA CCCTGTATGG TTTTNAGTTT AAATTAAAGG AGTCGTTATC 180
GTGGTGGGAA TATGAAATAA AGTAGAAGAA AAGGCCATGA AA 222
```

## (2) INFORMATION FOR SEQ ID NO: 1138:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 432
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01284

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1138:

```
GATCGCACAT CCCTGCGCCC CCATGCCCCC ATGCCCTCT GAGTCACACA GGACAGAGGA 60
GGCAGAGCTT CTGCCCCTG TTATCTTCAC TTTCTTTGTC CAGTCTTTTG TTTTAAATAA 120
GCAGTGACCC TCCCTACTCT TCTTTTAAAT GATTTTNGTA GTTGATTTGT CTGAACTGTG 180
GCNACTGTGC ATTCTTGAA TAATCACTTG TAAAAATTGT CAGTGCTTGA NGCTGTTTCC 240
TTTACTCACA TTGAAGGGAC TTCGTTGGTT TTTNGGAGTC TTGGTTGTGA CNNCAAGAGC 300
AGAGTGAGGA AGACCCCCAA GCATAGACTC GGGTACTGTG ATGATGGCTG CAGTCCAGTT 360
TTTATGATTC TGCTTTTAT GTGTCCCTG ATACCAGTGG NCTTANCAAT TATACATTNC 420
CTCATANTTA AA 432
```

## (2) INFORMATION FOR SEQ ID NO: 1139:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 220  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01285  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1139:  
 GATCAGACCC AGAGAAAAGT AGTTGTCACT CATAGCACAC ATCGGACATT TGGAAAACAG 60  
 CAGTGGCAAC AACTGTATGA CAACTTAAT GCCTGGAAAC AAAATCTGAA CAAAGTGAAA 120  
 AACAGCCTTT TGAGTCTTTC TGATACCTGA GTTTTTATGC TTATAATTTT TGTCTTTTGA 180  
 AAAAAAGCC CTAAATCATA GTAAACATT ATANNCTAAA 220

(2) INFORMATION FOR SEQ ID NO: 1140:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 219  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01286  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1140:  
 GATCTTGGGG CCTGTTTTCC CATGGGATTC AAGAGGGACA GCCCCAGCTT TTTTGTGTTT 60  
 TAAGCTTAGG AATCGCCTTT ATGGAAAGGG CTATGTGGGA GANTCAGCTA TCTTGTNTGG 120  
 TTTTTTTGAG ACCTCAGATG TGTNTTCAGC AGGNCTGAAA NCTTTTNTNC TTTAATAATG 180  
 AGAAATGTAT ATTTTACTAA TAAATTATTN ACCGAGAAA 219

(2) INFORMATION FOR SEQ ID NO: 1141:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 219  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01287  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1141:  
 GATCTAGAGA CAAAGGATAC TCAATGAGGA GCTTTTTTCC CCTCTTGGA CAGGTAAAAT 60  
 GCTTTTCCTT ATTAATATAA TTATAAAACA GTATTTTATG TAACAGCTAT TCCCATATTC 120  
 TAGGAGTGGC CTAAGAAATG CGTGTTCAG TGACTAGATT ATAAATATNC TCTATTGTGA 180  
 ATAGTTGAAT AAAACAGCTG TTTTTTCTG CTTCTCTAAA 219

(2) INFORMATION FOR SEQ ID NO: 1142:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 219  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01288

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1142:

GATCTGTGAA ATGCTATCTC TCCTGANGCA ATACTGTTGA CCAGAAAGGA CACTCCATAT 60  
 TGTGAAACCG GCCTAATTTT TCTGACTGAT ATGGAAACGA TTGCCAACAC ATACTTCTAC 120  
 TTTTAAATAA ACAACTTTGA TGATGTAAC TACCTTCCA GAGTTATGGA AATTTTGTCC 180  
 CCATGTAATG AATAAATTGT ATGTATTTTT CTCTATAAA 219

## (2) INFORMATION FOR SEQ ID NO: 1143:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 219  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01289

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1143:

GATCCCTGGA CACTTACGTA CAATGCTTCG TNCTGCCTGA TGACAGCCGG GCCAGCCGCC 60  
 AGCNTACAAG GNTTGTNCGA CGCAGCCTCA GCCCTGTNTT CAATCACACC ATGGTGTACG 120  
 ATGGCTTTGG GCCTGCTGAC CTGCGCCAGG CTTGTNCCGA GCTCTCCCTC TGGGACCATG 180  
 GGGCCCTGGG CAACCGNCAG NTNGGGAGGC ACACGCNTN 219

## (2) INFORMATION FOR SEQ ID NO: 1144:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 218  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01290

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1144:

GATCTCGGTG CTTCTTCCTG TGCTGTGGTT TACCCCAAAC CTTTAGGTTG TTTATTCATT 60  
 CAGATTAGAT AGACTGGAGC CATAAAGTTA ATTTGCACCT AGCTTTTTTG AGAATAGCCA 120  
 TGATTAAGT CTATTCGTGG TGGGGGTGGG GGGGAACCT ATGATTTACT ATGCAGATGA 180  
 AGAGGGTAGG AACTAAATAA AGGACTTTGT AAGCCAAA 218

## (2) INFORMATION FOR SEQ ID NO: 1145:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 218  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01291

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1145:

GATCAAGAGG GAGTTCATGC AACACCTGAG AATCTGATTA ATGCACTGAA TAAGTCTGGA 60  
 TTAAGTGACC TTGCAGAAAG TCTAACTAAT GACAATGAGA CAAATAGTTA GCTTCTTTTT 120  
 TTTTCTTTT TATTAAANCT GNGATAGATT TTNTTACCAA GCAGCATTTG ATAAGAGGTC 180

CACTGGTTTT GGTAANCAAT AANCATTTTT ATACCAAA

218

## (2) INFORMATION FOR SEQ ID NO: 1146:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 218
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01292

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1146:

```
GATCCCCAGC TGTTTATGCA TAGATAATCT CTCCATTCCC GTGGAACGTT TTCCTGTTC 60
TTAAGACGTG ATTTTGCTGT AGAAGATGGC ACTTATAACC AAAGCCCCAA GTGGTATAGA 120
AATGCTGGTT TTTCACTTTT CAGGAGTGGG TTGATTTTCAG CACCTACAGT GTACAGTCTT 180
GTATTAAGTT GTTAATAAAA GTACATGTTA AACTTAAA 218
```

## (2) INFORMATION FOR SEQ ID NO: 1147:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 217
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01293

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1147:

```
GATCCTATCC AGTTGAGGAA TGCTTGCAAT GCTCATTGAA GGGATTGCT TTGGGACTTT 60
GTCATCTTCC AGAAAGGAAA CATATTGTAT ATTTGGCCCA GTGTGATTGA TTGCTTTATC 120
TTTGGTAACT TTTACTTGAA TGGGATTGTC TGAATTAATG ACTATTGAAT TTAAACTAA 180
TTATGAGTTG ACAAATAAAT AAAAGGTAGT GTTTAAA 217
```

## (2) INFORMATION FOR SEQ ID NO: 1148:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 217
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01294

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1148:

```
GATCATAGTC AGAAAGTACT GCAGTTAACA GGAACCTTCT TGTTTCAGGCT GTCATAGCCA 60
CAGTTGCAAA AAGTGCAGTA TTGATTAATG CAATNAGTGC AATNAGTGAC ATCCTGAGTC 120
TTTTATCTGT TNAGCTTGCT NTNCTNTTCT NTCATACATC AGGATATTGC CTGTAATGTG 180
GAGTGGACAG GATAAAAATA AGNATTTTAC TTTCAAA 217
```

## (2) INFORMATION FOR SEQ ID NO: 1149:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 124
- (B) TYPE: nucleic acid



(C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01295  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1149:  
 GATCTGAAGA AAGCTTTTGG TGCTTGCTCT CACAACCACC TCAGTCCTCC CTCCCTGTCC 60  
 TCCCTGTCT CCTTTCCTCC TCCTGGGTTT ATGTTGTAAT AAAAGAAGAT TGTGTTGTG 120  
 TAAA 124

(2) INFORMATION FOR SEQ ID NO: 1150:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 215  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01296  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1150:  
 GATCATAGCT TGTTTTATTT TGTGCTATAA AATTAACAGT ATTAAATGAC TTATATTCTT 60  
 AGAATACATC GAGTGTCTTT TCTTAACAGA TTAGTGCCTT TTNATTTTGT TATTCCGTTT 120  
 TACGTTACTG GTCCAGCAT CAAAACCCTT GTTCCATGG CCTGTTTGTA TATTGTCTCA 180  
 ATAAAACTTG CATCAGCCGG TGGTGGCGGC AGAAA 215

(2) INFORMATION FOR SEQ ID NO: 1151:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 299  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01297  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1151:  
 GATCATAGTG TTTTGTAAATC ATTTAATGTC TGCAGCCAAA TTTTAAAGGG TAATTTAGAC 60  
 CTAATACTGC TCTTGCTGTG TCTTATTAAG TTAAATTAAG TGAATGANTN CTGGTAAAAA 120  
 TTCANNNGG CACTCTGTGA GTAGAGAGTA TCATTTAAGC TTATTTNAGT CACATGTAGT 180  
 ATATATCTCC TTAAAGCTGT CACTCTCACT TTNCTTACCA TTCTCTTGAT TTNNTCAGAA 240  
 NCCATCTAGT CATCATCTTT ATACTCTACC TGCTTCTGCA ATTGTATATC ANATNGNGN 299

(2) INFORMATION FOR SEQ ID NO: 1152:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 214  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01298  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1152:  
 GATCAAAGTT TAATTGCTTC ATTTTGTGTT AAAAAGGGAT ACTGATGTCA GAAAATCTGT 60  
 AATATGTTTT ATTCAAAAGA TGTAATAAT GTATACAGAC TTGTATGTGA TGGGATGGGA 120  
 AATATTAAA TNCTAGGTGT TTTTTTTTTT TTNAANGNGG AACCNCAATG TTTATAGGAA 180  
 AAAANTGATT AANTNGTTCC GTTTGGCCNT GAAA 214

(2) INFORMATION FOR SEQ ID NO: 1153:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 214
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01299

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1153:  
 GATCCCTCTC CTCGCTGCC TTCTGGAAGA CTTCAAGAAG TTGAGCCTCA CTGGTGCCAG 60  
 GAAGCCAAAG CTTACTTTGT AGAACTGACA CTAACTACC CGAAGACTTA GGTGCTTTGT 120  
 GTACTTAACC CCAGGACCTN CTTACTTTTT AATATAAAGA GTGATGTTGT ATTTCTGTGT 180  
 CTGCACTTTT TAATATAAAG AGTGATGTTG TAAA 214

(2) INFORMATION FOR SEQ ID NO: 1154:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 214
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01300

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1154:  
 GATCCCAAAG CCACGCTCAT CCAATCCTGG NGAATCATTT ATTTTGAATA TAGACCATTG 60  
 AATAGGTGAA AAATGGAAAA GTCACTTTTT GTACATTTGC ATTCCTTCAA TAATGATTAC 120  
 CATTTGTNCA CATATTTGTT GACCATTGGA ATTGATTTTA GCACAGTGCC TAAAATATAG 180  
 TAGGTGCTCA ATAAATATTT GTTAATTGAA TAAA 214

(2) INFORMATION FOR SEQ ID NO: 1155:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 214
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01301

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1155:  
 GATCCAAACT AATAAGAATA AGCTGTACAG GAACTAGTGC TCAATATACA TTGTATAAAT 60  
 TTGTGGAAAT CTCTTGATG TNAATTGTTA CTTCAAGTGG CTTTTATTAA GATTNCTCA 120  
 GACTTACTTG GAGGTTAAAG CAAACCCAAA TGTGTATTAT TTTGTACAG AGCTCTGCTT 180  
 TATAATTTTG TAATAAAGTT TCAATACAGA CAAA 214

## (2) INFORMATION FOR SEQ ID NO: 1156:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 213
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01302

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1156:

```
GATCGCAGTG GAAGAAGATT AGTGCATCAT TGAGAGAGGA GAAGTGGAGT GTGGGGTGAG 60
CAAAAGCCAA AATACTAATC ACTAGTACAC CAGAGATGCT CCACAAGGTA TGCTCCCCAC 120
GGTTTCTTCT CAATTTCAA GGTNAAGATG TTTTCTTG TGATATAAA ATTTATTGTG 180
AATACTTGGT CCATNAAATT GGTACTTGCT AAA 213
```

## (2) INFORMATION FOR SEQ ID NO: 1157:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 213
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01303

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1157:

```
GATCTTGTTG AGGCATTTAG CTGCCATGCA CCTGTCCCCC TTTAATACTG GGCATTTTAA 60
AGCCATCTCA AGAGGCATCT TCTACATGTT TTGTACGCAT TAAATAAATT TCAAAGATAT 120
CTGAGAAAAG CCGATATTTG CCATTCTTCC TATATCCTGG AATATATCTT GCATCCTGAG 180
TTTATAATAA TAAATAATAT TCTACCTTGG AAA 213
```

## (2) INFORMATION FOR SEQ ID NO: 1158:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 212
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01304

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1158:

```
GATCTCATTT CAATTTCTTT ATTAGAGGGC CTTATTGATG TGTTCTAAGT CTTTCCAGAA 60
AAAACTATC CAGTGATTTA TATCCTGATT TCAACCAGTC ACTTAGCTGA TAATCACAGT 120
AAGAAGACTT CTGGTATTAT CTCTCTATCA GATAAGATTT TGTTAATGTA CTATTTTACT 180
CTTCAATAAA TAAAACAGTT TATTATCTCA AA 212
```

## (2) INFORMATION FOR SEQ ID NO: 1159:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 212
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01305

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1159:

GATCTGGTCT GTTCCTGCGT CTGCGGANGG CCCTTGTCTC CCAGCTATCT ATAACCTTAG 60  
 CTAGAGTGTC GCCTTGTGGG TTCCTGTTGC TGAGACTTCC TGGATGGAGC CGCTCACC 120  
 CCGGGCCCGT GGCTTGCNCG GANTGTGTCC AATAAAGTTC TTGGATGTGA AACTTAACA 180  
 ATTTTGTGTA ATAAAAATGG AGAAGCTCTA AA 212

## (2) INFORMATION FOR SEQ ID NO: 1160:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 211  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01306

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1160:

GATCCTTGGT GTGTAGTTCA GTCTGCAGT ATACAAGCTT TTGTGTATAA ATGTTTTATG 60  
 ATATGATTCC CTGTATTTTG CAGGGGTTTT TTTCTCTTTT NCTTTT TAGA TAAATATGTA 120  
 TATCAATATT TTAAATNCAT CTTTGCTTTT TTTAGAGGAG TTTGTAATCA CCTTATAACA 180  
 TGAAAATAAA CATTCCTTT TTAACATCAA A 211

## (2) INFORMATION FOR SEQ ID NO: 1161:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 210  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01307

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1161:

GATCCTGTAT ATGTGTGTTT TGGGGGAGCT ATGATAAGTT TTATGGCAAA CGGTTGGTAT 60  
 TGTAACTTT TTATTGTCAT CAAAAGTTCA TAAAAGTCCT ATTAATCCCC ATATTCTNNN 120  
 NCTGCCCTTA ACTCTGGTAT ACACCAAAAA GAAATCTTTA CTTTCCTTGT TTTATCATT 180  
 TAAAAATAAA GTATTTTGCT AGTATGGAAA 210

## (2) INFORMATION FOR SEQ ID NO: 1162:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 210  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01308

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1162:

GATCCGCCCA TGTNAGCCTC CCAAAGTGCT AGGGTTACAG GCATGAGCTA CCATGCCTGG 60

CAACAGCTTT CATATTTGTA AGTTTTTTTTT CCTAGGTAAC CCAAGGTCTA TTGAAATTNC 120  
 ATATAGCTTT CTTTNCATT ACATATTTAA ATAGATTNN CCTGATTNA GAAAAGCTGT 180  
 AGATTTTAT ATGTNAATCT TGTNTCCNTN 210

(2) INFORMATION FOR SEQ ID NO: 1163:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 209  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01309

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1163:

GATCTNGGAC TCTNCCTCTC ACGACTGCGC CTTAGTCACT CAGACATACG GCGCANTGCA 60  
 GGAAAAGCCT ACACAGACGA CCTGGGTGCT GTGGGTGGCG CCTGCNTGGA GGACGAGCCA 120  
 GCNTCCTGCN CTGGATGAGG ACAGCGAGCA CCCGCCATNA TTCTNCGGAC TGACTGAACT 180  
 TNACCTGTGA CCTCTTACCN GTGGAGCAN 209

(2) INFORMATION FOR SEQ ID NO: 1164:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 209  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01310

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1164:

GATCACTNCA GGCCAGGNGT CCAAGACCAG CACGNCCAAC ATGGCAAAAC CCAGTCTGTA 60  
 CTAAAAATAG AAAAATTAGC TGGGCGTGGT GGC GTGTGCC TGCAATACCA GCTACTCAGA 120  
 AGGCTGNAGC AGGNTAATTG CTTGANCCTG GTAGGTGGAG GTTNCAGTGA GCTGANATCA 180  
 TGCCACTGNA CTCCAGCCTG GGTNACAGN 209

(2) INFORMATION FOR SEQ ID NO: 1165:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 207  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01311

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1165:

GATCCTTACC GTCCTAGAGA GCAGACGCTT TCTGAAACT ACTTGCTCCA AAAGACCCTC 60  
 TGAGTTAACG TTTCAGCTGT ATCATTAGAC TTGTATTTAG AGCGTGTAC TTCCTCTGAA 120  
 CTGTTACTGC CTGAATGGAG TCCTGGACGA CATTGGGTTT TTCCTCTAGG AGAATAACAAG 180  
 CCTTAATAAA CAATACTATT TAGCAA 207

(2) INFORMATION FOR SEQ ID NO: 1166:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 207  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01312  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1166:  
 GATCTGAACA AAGTCTGCAT TTNGTTAATA GTGTGGTACC AATGTTGGTT TCATAGTTTT 60  
 GGCCATTGTG CTGTGTATTT ATAAGATGCT AACATTAGGG ATAGCTGAAT GTGGTATATA 120  
 TAGGAACCTCT GTGCTGAGTT TATAACTCCT CTGTATGTCT AAAACTATTT CAAAATAAAA 180  
 NGTTTAAAGG TAAAAAATAA GATTAAA 207

(2) INFORMATION FOR SEQ ID NO: 1167:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 206  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01313  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1167:  
 GATCCAGCCA CCACTCTGAA ACTCATCACA TCTTCATTGA CAGGGAGGGA GCCCAGGACA 60  
 TATGTGTGGC TCATTGACCA GAAGGCTTTC TTAGTCCCAA CAGCCATGAA CCATGCACTT 120  
 ATGGATACCC AGCCTTTTAG GGCTACGTGA AATGCATCCT TGTANCATCA TTGTATTCTT 180  
 TCAATAAATA GCCTTCTGAG TTGAAA 206

(2) INFORMATION FOR SEQ ID NO: 1168:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 213  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01314  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1168:  
 GATCTGCCTG CCTATNAGAG CTTTGAGAAG CTCCGCCACA TGCTACTGTT GGCTATCCAG 60  
 GAGTGCTCTG AAGGCTTTGG GCTGGCCTAA TAAGGCCCTG CCCAACTCCG TGGGGTTTTT 120  
 TTAACCATTTG TTGGACCTGG GGAGGGGGGA GTTAAAAAAA GAACCAGAAA GAAATTGTCA 180  
 AAAACCAATA AATGAAATCC ACCAACTCAC AAA 213

(2) INFORMATION FOR SEQ ID NO: 1169:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 215  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01315

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1169:

GATCTAAAGT GACCTTGATG GACAGTGGAA GAAATCACAA CATGGAATTC CTCGAATAAC 60  
 AATTTATTGA CTTTAAATAA TTTTGTCTAA TGCTACATAT ACACAATTAA AAAACCTTTA 120  
 CACTATTTCT AGAAAGTCAG CATGTATTTT TGGCTCGNNG TTTCNCCNCG TGTTTTCTGT 180  
 GGAAGGAATA AAAATTTGAG TTTCAGTTGT GTAAA 215

## (2) INFORMATION FOR SEQ ID NO: 1170:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 349  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01316

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1170:

GATCTGTGAC AGCAGCAGCT TCATGTTGTA TTTTNTTTTAC TGAAATTGTA AAATATCCAT 60  
 CTTAAAGACA TCAACTATTC TAAAANTTGT TTACAGGATA TTCCTTTAGT GGTGGAATTA 120  
 AAATNTACGA NTACTTGCTT TTTCAAAAAA ATGTATTTTN TGTTAAAAGT TTAAAGATTT 180  
 TTGCTATATA TTATGGAAGA AAAATGTAAT CGTAAATATT AATTTTNTAC CTATATTGTG 240  
 CAATACTTGA AAAAAACGGT ATNGAAAGTA TTTTGAGTCA GTGTCTTACA TGTTAAGAGG 300  
 GACTGAAATA GTTTATATTA AGTTTGTATT AAANTTCTTT AAAATTAAA 349

## (2) INFORMATION FOR SEQ ID NO: 1171:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 205  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01317

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1171:

GATCCAAGCT GTATATACCA TATATAAACA TTTTACATGA ATCATTTAGT TTTTAAATTC 60  
 ATTTACTAAT GCTATAAAAT TTCCTATATT ACCCCAGTAA TTTGCATCAG CTGGTTTATA 120  
 TACTAAAGCA ACATGTTTTG ATGAGTTTCT TACATCCTTA TCGAGGAATT GGGTTAGGAA 180  
 AAAATACATA ATTGTAAAAC TGAAA 205

## (2) INFORMATION FOR SEQ ID NO: 1172:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 205  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01318

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1172:

GATCTTCAGG NTTCTACAAA TAGGGTAATT GTAAATTTAA AGCATTAGCA TTTATTGGTG 60

AATAATGTAT ATATCCCCAT TCCAAGAAAT ATAAGTNAGT NANGTTGAAA TAAAATCTTT 120  
 AAAATTTACT ATATTGCCAG TGGTTTCACA NCAGTTCTCT TGTATTTATT TATCAATTAA 180  
 ATCAAATAAA AATGATTATG TCAAA 205

(2) INFORMATION FOR SEQ ID NO: 1173:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 204
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01319

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1173:

GATCCCCCTGA CCTGCATTAC CTTGGTAACC ATTTTCATTTT TTAATTTAAT TTCATTTTTTT 60  
 AATTTTGGTG TACAAGCTGT AACATTTTCAT CTTTCAAAGT GTAACACGCT GATTTTCCTCA 120  
 AATAGAGATA CCCCTTTGAG TGATAAATTT GCAAATGCT GTCTTCATTT TCTGTATTAA 180  
 AATTCATTTT AGTTTAAATA TAA 204

(2) INFORMATION FOR SEQ ID NO: 1174:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 204
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01320

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1174:

GATCAGAGCT GCTGAGTTCA GGATGCCTGN GNGTGGTTAG GGTAGCTTCT TACATGGATG 60  
 TCAGGAGAGC TGCTGCCCTT GGCCTGAGTG CGTATTCAGG TGTTTTGCTG CTTTGGCAGA 120  
 GAGTGGTTGA GTGTNGAATC GTTCAGCTCT NAGGTTCTGT NCCCTGTGGT GGAGAGGACG 180  
 CAGCAGCNAN NTCTGGGNTC TNAN 204

(2) INFORMATION FOR SEQ ID NO: 1175:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 205
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01321

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1175:

GATCAGTGCT CTCTATTGAT GTTCTTGCTG GTCTCCAGNC ACATTCCTGT TGCATTAAGN 60  
 CTTGAAAGAC TTGTAGATGT GTGATGTTCA GGCACAGGAT GCTGNAAGTA TGTTACTATT 120  
 CTNAGTTTGT AAATTGTCCT TTTGATACCA TCATCTNGTT TTCTTTTTGT AGGTATAAAT 180  
 AAAANCACTG TTGNCANTAA GAAA 205

(2) INFORMATION FOR SEQ ID NO: 1176:

(i) SEQUENCE CHARACTERISTICS:



(A) LENGTH: 203  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01322  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1176:  
 GATCTCAGCC ATAAAGTGCC AGTTTGCTTA GTTCTCACTG TCTCCTGGTC TGTGCTGCCC 60  
 TGCTCTGGGG ATGCACGGCG GCAGGGTGGG GGAGGGAGGT TCCTCGCAGG TCTCAGCCCCG 120  
 GGACAGGGTC TTGCAAGCAG CCTCCTGGGC AGTCGTAAGG GTTGCGGCGT GATGTCTTCA 180  
 ATAAATTAAG TTTTATTTGG AAA 203

(2) INFORMATION FOR SEQ ID NO: 1177:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 203  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01323  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1177:  
 GATCAAAATG AAACAAATAT ACCTTATCCT AAAGAGCTCA TAACAAATAA GTTACCTCCA 60  
 CTCTATAAAC TCAGACCTAC TTTTGAAGA TAACTGCTTT TAACCTCTCC TTACAAGATT 120  
 TTTGTTGTTG ATGTATTTAA TTTTAGCCCA TGTCTCAATT CTCATTTTCA AAGAATCAAT 180  
 ATATTAATAT ACCTTTGGTC AAA 203

(2) INFORMATION FOR SEQ ID NO: 1178:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 202  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01324  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1178:  
 GATCGCTCTT GTGTTTTTGC ACTATTAATT AACTTCAAGT GCAATTTTGG CAGGCAGGCC 60  
 AAGGGTCTCA ACAGGCTATT TGGAATGAGT TCTCTTTTAA GGCCTTCAAC GTAGTNNGAC 120  
 ATTTTCAAAT CAAAAGTAC AGCAGGAGCC AGCCTTTATT TTGTCTGTGT ACACAATAAA 180  
 ATATTCCGCT TCTATAGGCA AA 202

(2) INFORMATION FOR SEQ ID NO: 1179:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 211  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01325

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1179:

GATCAGCTGA AGGTTTCATGG GTTTTAAAGTG CTTGTGGCTC ACTGAAGCTT AAGTTAGGAT 60  
 TTCNTTGCAA TGAGTAGAAT TTCCCTTCTT TCCCTTGTC AAGGTTTAAA AACCTCACAG 120  
 CTTGTATAAT GTAACCATTT GGGGTCCGCT TTTAACTTGG ACTAGTGTA CTCCTTCATG 180  
 CAATAAACTG AAAAGAGCCA TGCTGTCTAA A 211

## (2) INFORMATION FOR SEQ ID NO: 1180:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 199  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01326

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1180:

GATCCCAGGG TGCAAAGTGG CATTGAGACA GCAGCAACAG CTCAAGAGAT ATCTCCTGCC 60  
 TACTTGCCCC TCCTTCCAGG CCGGCTCTAA GAGAAAGGCC CATCTACTCA GGAAGAGGGC 120  
 CAGGNCCTTG GGTTCCTGGG ATTGGCCCCCT GAGAGGGCTA GTCCTGTGGC TGAAAATAAA 180  
 GCATGTCCCG CCCNNTAAA 199

## (2) INFORMATION FOR SEQ ID NO: 1181:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 199  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01327

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1181:

GATCTTTTTT TGGATATTTA TACTTTTAGA TATATAGTAC CTTTAAGTAG CAGTATGGGA 60  
 CAAGGCTTGT AAATGTTTTG TCTAATGTTT TATTGTCACC TTTTATGCAT TTATCACTTC 120  
 CAAATCTAAC TTTGCACAAG TAACCCATGT AAAAAAAAT GTACATTTT CAAAAGTTGT 180  
 AAATAAAAAT AACCTTAAA 199

## (2) INFORMATION FOR SEQ ID NO: 1182:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 252  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01328

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1182:

GATCTGGACA GCTGTCCCTC CACTACAGAA ACCTCACAGA ACACAGCAAA GNATAAGTGC 60  
 ANGAAGGCTG CTTCCAGCTC CAAAGCACCT ANGAATGGAG GTAAAGCGAA GGATTCAGCA 120  
 ANGACAGCAG AGGAAACTTC CANGCCAAA GNTGACTAAA GNAGTACAGG TTANGGTATC 180

TGGTATCTGC ATGTAGANTC TTCAGCTGGT GGATGGTGAC TTTTGAAGTA CNAAAGGCTT 240  
TGGCAACNGN AN 252

(2) INFORMATION FOR SEQ ID NO: 1183:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 197
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01329

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1183:

GATCTAGGGA GTTACCTAGC AGACCTTCCG GACTGACGTG ATGCTACAGG GGTCCCATCT 60  
TTCCTTGTC TTAGCTATT TTACAGTTCT GTGAATTGTA AAGAACTGAG GGTAATGCCA 120  
ATNACTCTTG TTCATAGAGG CAAATGAATT TTGTCCCATG GAGATTTAAT TGATATTACT 180  
CTGTGGATGT TGACAAA 197

(2) INFORMATION FOR SEQ ID NO: 1184:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 146
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01330

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1184:

GATCATAGCT ACTACTTCAT TGCAACCTTT ATTAAGTAC CACATCAGAC ATCATGCTAA 60  
ATACCTGAAT GCATGAAAAA ACTCCAAATA AGAGAATCTC TTCAGGATTA TAAAAGTTGT 120  
AAAATGCAAC TGTATTGCTG AGCAAA 146

(2) INFORMATION FOR SEQ ID NO: 1185:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 197
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01331

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1185:

GATCCGGCTG CACACCAGGT GCGGAGGCTG AGCCATCCCT GCTGGACTCC CTACCGCAGA 60  
CGGAGTCANG NACGCAGCCG CAGCCNCNTT CCTTCACACC CCCTCACAGA CTCCTTGTGT 120  
CCAACGGGAA TAGGAAGAAT TAGTTACTGA CTTACCTGA GAAAAAATA AATNCTCTAT 180  
GGTGGTTTCA CAGGAAA 197

(2) INFORMATION FOR SEQ ID NO: 1186:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 196
- (B) TYPE: nucleic acid

- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS01332
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1186:

```
GATCTCTTTG TGAACCTGT GTTCTCTATA TTAGATTGCT GTTTATATGT AAGAATTTTA 60
TTGCTTATGT GGCATACAAT ATTTATAACT ATAACTTTA TAGAAGTACA GTATTAAAGT 120
CAGTGGTACA CAGACATTCT GTACATATCC TGTGAAACGT GCTGTCATAT GAAATAAATA 180
TATCTGTCTT TACAAA 196
```

(2) INFORMATION FOR SEQ ID NO: 1187:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 196
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS01333
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1187:

```
GATCTTCCCC ATTGTCCACT CAAGTCGTGG CCTGGGGAAC ACAGACGGAG CTGTCCCCAG 60
TGTCCTCCGT CCCTCAGCCC CTGGCCTGGC TGAGTTTGGC AGGGCCTGGG CCATCCCTGG 120
GACAAAGGTG CGTCCCTTCA GCTCTTCTCC GTGGAGCTCG GGGCTTTCTG TATTTATGTA 180
TTTGTACGAA TGTAAA 196
```

(2) INFORMATION FOR SEQ ID NO: 1188:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 196
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS01334
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1188:

```
GATCTTCGGC CTCATTCTGA ATACCTNTTC TTTGGACAGT NTTTTTCCTT TGGTGCTCTC 60
TTGCCTTTAG CTACCTTCTC TAATATGTAT GCTACCATCA CTAATAAAGT GATGGGAATG 120
GGTTTGAGAG TCGTAATTTA TATTAAAAAG TTGTTGGACT TTAAATACA TTTTNCAAA 180
TAAAAAATTA AGCAAA 196
```

(2) INFORMATION FOR SEQ ID NO: 1189:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 193
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS01335
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1189:  
 GATCATGTGT GCACAATACT TGTGGCCAC AAAATTTTAC AATGACTGCT GAGGAATCAT 60  
 TCTTTTGGCC TGTAATAAT AACAAAGGC ATCATTAAGT AGACCAGGTA ATTACTGCTT 120  
 GTNTCTCAAG GCTGCTGTCT TTATCAGCAC TAACTAAATA AATTGTGTTG TTCAGTTGTA 180  
 CTTGTCCTGC AAA 193

(2) INFORMATION FOR SEQ ID NO: 1190:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 192
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01336

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1190:

GATCCTGTGT CCTAAATTAA TATACACCAG TGGTTCCTCC TCCCTGGTAA AGACTAATGC 60  
 TCAGATGCTG TTTACGGATA TTTATATTCT AGTCTCACTC TCTTGTCCCA CCCTTCTTCT 120  
 CTTCCCCATT CCAACTCCA GCTAAATAT GGGAAGGGAG AACCCCAAT AAAACTGCCA 180  
 TGGNCTTTTA AA 192

(2) INFORMATION FOR SEQ ID NO: 1191:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 189
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01337

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1191:

GATCAGTGCC TTGATGCCAA CTAAGGAAAT TTGTTTAGCA TTGAATCTCT GAAGGCTCTA 60  
 TGAAAGGAAT AGCATGATGT GCTGTTAGAA TCAGATGTTA CTGCTAAAT TTACATGTTG 120  
 TGATGTAAAT TGTGTAGAAA ACCATTAAAT CATTCAAAT AATAAACTAT TTTTATTAGA 180  
 GAATGTAAA 189

(2) INFORMATION FOR SEQ ID NO: 1192:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 189
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01338

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1192:

GATCAAATTT TTGTAATAAT TTTTAAGAAG AGATGGCTTA TTAACAGGGA AGAAGCTTGT 60  
 NATATTCCAG TTGTAAGAAT AGCCTTAGTG TTTAGATTTT TTNATGATAG GNNAGATGCG 120  
 GNCATCACTG GGATATTTNC AAATCCCAAG GNCATCAGAG TGAAGTGTCA GTTGTTCAGAT 180  
 GATTTNNAN 189

## (2) INFORMATION FOR SEQ ID NO: 1193:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 188
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01339

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1193:

```
GATCCCAGCC AGGCCCTGGA GGTCTGACAG CCCCTCCCTC CCAGAGCTGG TTCCTCCCTG 60
GGAGGGCAAC TTCAGGGCTG GCCACCCCCC GTGTTCCCCA TCCTCAGTTG AAGTTTGATG 120
AATTNANGTC GGGCCTCTAT GCCAACTGGT TCCTTTTGTT CTCAATAAAT GTTGGGTTTG 180
GTAATAAA 188
```

## (2) INFORMATION FOR SEQ ID NO: 1194:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 187
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01340

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1194:

```
GATCTGAATG ATACTGTCTG CTGTGTCTTT TTTCCATGAG AAATCACTGT TGCAAATTGC 60
CTATAAATTG ACTCTACTAA AATAACAATG TTTCACTCTG AAAATTTGAA TTGAAAAAAA 120
TGTATAATAT AAAATTGTAA TACTACTCAA TGATTATAAA AGTAAAAGTT GGTAATTTAG 180
GCAGAAA 187
```

## (2) INFORMATION FOR SEQ ID NO: 1195:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 187
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01341

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1195:

```
GATCAGGGGG GAAATGGAAT GAGTGAGGCG GGCCAGGGAG CCGCTCAGCT CCAATCTTTG 60
TCACTGTGTG AAATGTGGAC TTGGTATGAC CTGACTGTCC AATTTTCAAG ATGAACCAGA 120
AATCCAGACC NTTATATAAA ATCTCCTGGA TTTTAAATG TTGGCAATTA ATCAGAATGT 180
TTTTAAA 187
```

## (2) INFORMATION FOR SEQ ID NO: 1196:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 186
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01342  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1196:  
 GATCACTTAA TTCCTTTCTT ATCTTCCCCC TCACTTCCCT TTCTCCCACC CTCTTTTCCA 60  
 AGCTGTTTTG TTTGAATATA TTACTGGAAT GAGTTGCAGG NAATGCAGCA NACTTGTTTC 120  
 NCCTAGATTT GAGTCAAACCT CCTGNTCAAA GAATCGGTNG GGCATANAAG AAATNTTCTT 180  
 NTTAAA 186

(2) INFORMATION FOR SEQ ID NO: 1197:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 186  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01343  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1197:  
 GATCTTTTTTA ATGACAGTAC AGACTGAGAT TTGAAGGAAA CATGCACAAA TCTGTAAAC 60  
 ATAGACCTTC GCTTTATTTT TGTAAGTATC ACCTGCCACC ATGTTTTGTA ATTTGAGGGT 120  
 CTTGATTTCA CCATTGTCGG TGAAGAAAAT TTTCAATAAA TATGTATTAC CCGTCTGAAG 180  
 CTTAAA 186

(2) INFORMATION FOR SEQ ID NO: 1198:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 186  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01344  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1198:  
 GATCTTCAGG TATTTTAAAT TTAGTTACA TCAATTAATG TAAATNAATC CAAATGCTAA 60  
 TTTTTGTGGT GCAAGAAGTT TCTTATGTAA ATNCAGGGTA TGGATAAGCT AATTAAGATA 120  
 TCCATCTTTG GTGGCTCTAA GTGTATTATT TGTNTTTAAA TAAAGTGAC AAATATAGAT 180  
 AACAAA 186

(2) INFORMATION FOR SEQ ID NO: 1199:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 184  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01345  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1199:  
 GATCTAAACA CGAGGAAACA TTATTCATTG GAAAAGTGCA TGGTGTGTAT TTNAGGGATT 60

ATNAGCTTCT TTCAAGGGCT AAGGCTGCAG AGATATTTCC TCCAGGAATC GTGTTTCAAT 120  
 TGTAACCAAG AAATTTCCAT TTGTNCTTCA TGAAAAA CTTCTGGTTT TTTTCATGTG 180  
 GAAA 184

(2) INFORMATION FOR SEQ ID NO: 1200:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 183
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01346

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1200:

GATCGCCCGC CCCAGCCCGG GGCCGCTCAG GTCTGCTTGG AGGATGCCTC CCCAGGAGG 60  
 GCAGTGAGGG ATGCCGCAAC CTCGACTTCT CAGCCTCCTG GGGTTCCGCC GGCCAACACT 120  
 GTCTGTNTCA AATACTGTGC TGTGAGTTGT TTCAATAAAG GGGCCCCAAG GGCTGGGCTG 180  
 AAA 183

(2) INFORMATION FOR SEQ ID NO: 1201:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 184
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01347

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1201:

GATCTCTGCT CAGCTTCCCT TGCCTTTTAA GGCCTGCCCT AGCCAGGGTT CCTCCTGCT 60  
 TCCAGTACCC TCTCATGGCA TAGGNTGCAA CCCAGCAGAG GGCAGCTAGA TGGACATTTC 120  
 CCCTGCTCGG AAGGGTTNGC CTGCCTGGCT GGGGNGGTCA GTAACTTTG AATAGTAAGC 180  
 CAAA 184

(2) INFORMATION FOR SEQ ID NO: 1202:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 183
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01348

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1202:

GATCCCTTTT GGTTTTACTA CCCAAATCTA AATAGATACT TTTGATAATA GATAACTGCT 60  
 CTTTTACTAA GACATAGTCT CTACCTATAG AAATGTATTT TGAAAACACT TATTTTACAC 120  
 AGCAATTTTG TATCCATTTA AACTAACCTT TTATCAATAA AGCACTATTG TTTAGATATT 180  
 AAA 183

(2) INFORMATION FOR SEQ ID NO: 1203:

(i) SEQUENCE CHARACTERISTICS:



(A) LENGTH: 183  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01349  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1203:  
 GATCTCATTC TCCCTTTTTC TCCTGAGTTA CCATCAGTGC TAATGTTTCCT CTTTGGGTA 60  
 TAGTTCCTCA GGAGAACTTG TCCTATATTT NTTTGTGTGT GTTTTTTTC TTCCAGCTTA 120  
 AACAAATTAA AACTAAATAT CTAAACCTTG TATACAGACA TTAAAATTAG TGAGAGAAAC 180  
 AAA 183

(2) INFORMATION FOR SEQ ID NO: 1204:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 183  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01350  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1204:  
 GATCTGCTTT TNCTATTTCT CCCAACCAAA TCCTCTTAAA GACCCTTTGC TATGTAGTCT 60  
 CATGGTCTAG CATGCATCTT GTAGAAACAA GGCATNCTGG CAGATTGCAG GGTTGAGATG 120  
 TGTTTTATCT GTTTTATATT TTAAAAGATT CTGCCAGAAA ATAAAACCAG ACCTTGTTCT 180  
 AAA 183

(2) INFORMATION FOR SEQ ID NO: 1205:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 183  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01351  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1205:  
 GATCTGAATA GAGAAATGCT TACAGATAAT CATTAGCCCA CATACCAGTA ACTTATACTT 60  
 AAAGATGGGA TGGAGTTGTA AAGTGCTTTT ATAATACAAT ATAATTGTTA AAGGCAAGGG 120  
 TTGACTCTTT GTTTTATTTT GACATGGCAT GTCCTGAAAT AAATATTGAT TCAATATGGC 180  
 AAA 183

(2) INFORMATION FOR SEQ ID NO: 1206:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 182  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01352

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1206:

GATCCTTGGG GGCCAGGGTG AAGGGTATTT TACGGGAACT CTATAAAGCA GGAAGAAGCA 60  
 AGTTTATTCT TTAGACCAGT AGCTCTCAAC CATGATGTGG TCGTATATTT ATGGGTCAAC 120  
 ATGTGTTGTG GGGATATCCC AAGTAACTTG TTATTAATAA AAGTTAAGTT GCAAAATTTA 180  
 AA 182

## (2) INFORMATION FOR SEQ ID NO: 1207:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 182  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01353

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1207:

GATCAAAATT GAAGACACAT TCAGAGGTTT GATTGGTTGA GATTAAGTGG TGTGGTGGTT 60  
 GGTGTATGTA TGTTTNAATTT TNATGTCTTT GTATGTAGTT CTACATAATG CAAATTGTGC 120  
 TTTCTGATGG ACAAGACCTC ATAAGTGTGA TTAATATCAA TAAAAAGGGG ATGTTGTGGA 180  
 AA 182

## (2) INFORMATION FOR SEQ ID NO: 1208:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 183  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01354

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1208:

GATCCGTCOA TCTTGGGTGG AATNATTGTN CGCATTGGCG AGAAATATGT TGACATGTCT 60  
 GTCAAGACCA AGATTAGAA GCTGGGCAGG GCTATGCGGG AGATTGTCTA AAAGTGTGTTG 120  
 TTTTCTGCCA TCAGTGAAAA TTCTTAACT TGGAGCAACA ATAAANAGCT TCCAGAACAG 180  
 AAA 183

## (2) INFORMATION FOR SEQ ID NO: 1209:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 180  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01355

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1209:

GATCATGTTA TATTCTATAT CAGACAACT ATTTTNTTTT GACCTTTCTT CCCCTCCATC 60  
 CAGTATTTTCG GTTGATTTC TTTTCTCCCC TCTCTTCCCC TTCCACGAAC TGCAATACCA 120  
 GTAACCTTGG TATATATTTT TTGATACTGT ACACATGGAT GTNTTGTTTC TATGTGCAAA 180

## (2) INFORMATION FOR SEQ ID NO: 1210:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 180
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01356

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1210:

GATCAAAGAT TCTCCCCATC TCACAGACAA GGAAACTNAG GCCAGAGGGA GGAGAGAATT 60  
 GCTCATGGCT CCANAAGTGG TGGCAAGTTT CTCTGGACTC TTAGGTTTAT TTTNAATATG 120  
 AAATATAAAA NCAGTTTCAA ATATCTNATT GAGGGAGANG TAAACCTTA TTAAANCAAA 180

## (2) INFORMATION FOR SEQ ID NO: 1211:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 179
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01357

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1211:

GATCTATAAA ATGGAAGGTG ACCAATGTCA CTGCTTCTAA AATACTGTCC TAAACAACCC 60  
 AGAAGATTTT ATTTAGCTC ATGAATAGCT GTTCTAAATC TGTTGTATGT TAGACATACT 120  
 ATGAACTACC TCTTCACTTA TTATGGGGAA GTTTCCTTAA TAAAAGTGTG ACGATTAA 179

## (2) INFORMATION FOR SEQ ID NO: 1212:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 179
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01358

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1212:

GATCCAAGAC CAGGGNGGTT GGGACGGCCT CCTNTCCTAC TTTGGGACGC CCACGTGGCA 60  
 GACCGTGACC ATCTTTTGG CGGGAGTNCT CACCGCCTCA TTCACCATCT GGAAGAAGAT 120  
 GGGCTGAGGC CCCAGCTGC NTTGGACTGT TTTTNNCCNC CATAAATNAN GGCATTTTN 179

## (2) INFORMATION FOR SEQ ID NO: 1213:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 178
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01359

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1213:

GATCTGAGAT GTTCCTTAAC ATGTAGCCAT GTAATTAGAA CTCACAAGGG GCATTGAAAT 60  
 NTTTTCTTT TTCANATAGT CTGGGGCTAT TTAATTATTT NAAGTAAGCC AAGTCTACCA 120  
 TTTGAAAAAT GGTGCTTTAT TTCCATATCT GANGCCTGAN GTTATTTNNN AGTTTGTN 178

## (2) INFORMATION FOR SEQ ID NO: 1214:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 178  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01360

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1214:

GATCTGGCAT CCNCAGGCTG CAGCTTTATT AGCTTATAAC TTAATCATCT CTATCTTTAC 60  
 CAGCAGGCTC TGTATTGTTG ATATTTGCAA CTNGNTTTC TTTCCCATG GTGGAATTGA 120  
 AATAATTAGT TTTNAATNAC ATAAGANGCC TGTTTGCTAT TNGGNGGAAG ATAGATGN 178

## (2) INFORMATION FOR SEQ ID NO: 1215:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 176  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01361

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1215:

GATCAAAGAG GTTATCTCTG CCAGTCACAA GTGTGGCTGG TGTCATTCTG GGTCTGACTG 60  
 GAGCCCTCCT GGACTGTTTC TTTAATTTCA AAAGCCCTGC AGACATAGTA CCTGGTCAGA 120  
 ACTATGCCTC GGTTTATTTA TCATTTTGAA ATAAATCAA AATTCAACC TGTA 176

## (2) INFORMATION FOR SEQ ID NO: 1216:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 176  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01362

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1216:

GATCAAAACA ATTACCTAAT TGCAAAAGAG AAAGTGAAT GGAACATAGT CTCANATTCT 60  
 NCTAATGTGT ATCTACAAT GTCATGTAAT GTAAAGNAAA CCCTTTTGGA ATTAGAATTC 120  
 TTGTNCTGAA TGCTGAACTA TTTGGTAATA AAGTGCTTAT NTGCAGATAA CAGAAA 176

## (2) INFORMATION FOR SEQ ID NO: 1217:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 175  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01363  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1217:  
 GATCTGTGCT GGGGAACAAA GCTTTTGCAG TACCTTATAT TGTAGTAAA ATTTTATTTA 60  
 ACATATCCTT CAGTGAGCTC ATTTACACT GTAGCCTCTT CCTTAAAATT TGTGGTGCTC 120  
 CTGTAACAGT AAGANCTAAT TCTGAAATAA AAGACATCTC CTAATGCTGT GCAA 175

(2) INFORMATION FOR SEQ ID NO: 1218:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 174  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01364  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1218:  
 GATCAGGATA ATAATCTGCT TAGTAAGAGA AACAATTTGA ATTTTAGAAG GAAATTGCCT 60  
 TACCATTTGC AAATTAAGGT AATTAAAATA CAGTGAATTT CAAAATGCCT TTTTAATGAC 120  
 AATGTGTGAA CTTAATTTGT TTTAATAAAC CAAAATTGTT GTTATTGTGT TAAA 174

(2) INFORMATION FOR SEQ ID NO: 1219:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 174  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01365  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1219:  
 GATCTGAGCA GGCAAAGCTC AAAAGAGAGT TTGGAGGTTA AAAATAATTT ATTTTGCAG 60  
 TAGTGTGCTT TGAAATGTGT AAATCTTATT TCTAATGTAT ACAACCACAT TTCACATAAA 120  
 AATATGCAAT TTATATGCCA GATAAAAATA AAACAAGTGA ATTTGCAAGT GAAA 174

(2) INFORMATION FOR SEQ ID NO: 1220:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 173  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01366  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1220:

GATCAACATG ATGGTGA CTG GGAAAAAATT ACTTCAAGTA ACATGCTTAG CTTTCCCTCC 60  
 TTAATGTGAA AAATCAAGGG CTTACTGACA TAGGAACAAC AGAAATGCTC CTGGAAGCTC 120  
 AAGTTGCTGA ATTATAAGTT TATTTTTNAT CAATAAATAT NNNNATACTN AAA 173

(2) INFORMATION FOR SEQ ID NO: 1221:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 216
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01367

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1221:

GATCCATATT TAGTTTTATT AAGCTTTTCC CTGTTTTTAG TTTTGTTTTG GGTTTTTTGG 60  
 CTCATGAATT TNATTTCTGT TTGTCGATAA GAAATGTAAG AGTGGAATGT TAATAAATTT 120  
 CAGTTTAGTT CTGTAATGTC AAGAATTTAA GATTTAAAAA NCGGATTGGT TAAAAANTGC 180  
 TTCATATTTG AAAAAGCTGG GAATTGCTGT CTTAAA 216

(2) INFORMATION FOR SEQ ID NO: 1222:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 173
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01368

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1222:

GATCGNCTCT GAACCATCCC NTTTCTGCTG CCCGGAGCTG GGGAAGCTCG CTGTGGAGCG 60  
 TCTCGCACGT GGCAGGCAGG CAGAGAACTT GCTGCACCTT CTAGGAAATT GCAATCGATT 120  
 TGTAATGCAC TTTTCGCTAAT TGGGAGTTCA AAATTAACT TTAATAAAGC AAA 173

(2) INFORMATION FOR SEQ ID NO: 1223:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 179
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01369

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1223:

GATCTTAAGA GCAGACTTAA AGTAGCTTTG TACGCCTTAA TGTTCAATTTT GATTTATTTT 60  
 AAATCTTTAC ATTCAGAAAT NAGATACTGT ATTATCAGAC CAGGAGGCAT TGCTGTGAAA 120  
 GATAATNTCC TATTCTAAAA TATCAAATTT AAAATAAAGA TAATGAAAGA AAACATAAA 179

(2) INFORMATION FOR SEQ ID NO: 1224:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 172
- (B) TYPE: nucleic acid

(C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01370  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1224:  
 GATCCAAAAA TGGTAGCCAC TCACCCTTCA CAAACTGAAG TCCATGGACC ACGGAAGTCG 60  
 AGAATTAATG TACACCTGTA TCATGTGTAG GAAACCAGAA ATGTGTTCTT TATTTNTTGT 120  
 TCCCAAACAG GATTAAGTGT GAAGACTAAT TTATAAATGT GAACCTAAGA AA 172

(2) INFORMATION FOR SEQ ID NO: 1225:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 179  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01371  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1225:  
 GATCAGCATG AGGACAGAAG GCAGGAGACT TTGGTCAGTT ACCTGGGAAT TCTGGGCTGC 60  
 CAGGAAACGA TTTGGGCCTC TGTCAGTTTC TTTTCCATGT ATGAGGAGGG GGAAATTTGT 120  
 ATATTAGAAA CTTATTCATC CCACTCAGGA CAATAAAAAC GAATGTACAA AAAGCCAAA 179

(2) INFORMATION FOR SEQ ID NO: 1226:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 175  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01372  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1226:  
 GATCACAGTG GCCACGNCCA GGCCACAGTC ATGGTGGCCA CGTCCACAGC CACTAATCAG 60  
 NAGNCCAGGC CACCCTGCCT CTACCCAACC AGGGCCCCGN GGCCTGTTAT GTCAAACNT 120  
 CTTGGCTGTG GGNCTAGGGA CTGGGGCCAA ATAAAGTCTC TTCCTCCAAG TNAAG 175

(2) INFORMATION FOR SEQ ID NO: 1227:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 318  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01373  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1227:  
 GATCTTTAAT CTCATGAAGT ACGACAGCTA CAGCCGCTTC TTAAAGTCTG ACTTGTTTTT 60  
 AAAACACAAG CGAACCGAGG AAGAGGAAGA AGATTTGCCT GATGCTCAAA CTGCAGCTAA 120

AAGAGCTTCC AGAATTTATA ACACATGAGC CCCCCAAAAG CCGGGACTGG CAGCTTTAAG 180  
 AAGCAAAGGA ATTTCTCTC AGGACCGTGC CGGGTTTATC ATTGCTTTGT TATTTGTAAG 240  
 GACTGAAATG TACAAAACCC TTCAATGGGA TGTGTGTTTT ATTAAGTCTC TCACCAGTAA 300  
 ATTTTGCATG ATGGGCTN 318

(2) INFORMATION FOR SEQ ID NO: 1228:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 171
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01374

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1228:

GATCTGGAAG AGGCTTGTNA CCTGAAGTTC TGTGTGGTGG CAGTACTGTG GCCCACCAGT 60  
 GTAATCTCCC TGGATTAAGG CATTCTNAAA ANCTTAGGCT TGGCCTCTTT CACAAATNAG 120  
 GCCACGGCCT AAATAGGAAT NCCCTGGATT GTGGGNANGT GGGCGNAAGT N 171

(2) INFORMATION FOR SEQ ID NO: 1229:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 170
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01375

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1229:

GATCTGATGG TTTTAAAAAG AGGAGTTTCC CTGCTCAAGC TCTCTCTCTT TGCCTGCTGC 60  
 CATCCATGTA AGATGTGACT TGCTCCTCCT TGCCATCTGC CATGATGTGA GGCTTCCCCA 120  
 GCCACGTGGA ACTGTAAGTC CAATTAAACC TCTTTTCTTT GTAAATTAAA 170

(2) INFORMATION FOR SEQ ID NO: 1230:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 170
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01377

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1230:

GATCCATGGT GTTAGAAGCC AGGGGAACAG TTAACAGGGG AGGGATACTG GGGAGGGGCA 60  
 TCCTGGAGTG CTGGTCTACC TCATCTGGGT GTTGATTTC A TGAGTATTGT CAGTTTGT 120  
 CCAGACTCCC TGTTGGAGAT GTGGAAATAA AAACCACCTA ANCANGNAAA 170

(2) INFORMATION FOR SEQ ID NO: 1231:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 170
- (B) TYPE: nucleic acid



(C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01378  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1231:  
 GATCCATCAC AAAGCGAAGT CATGGGAGAG CCACACTTGA TGGTGGAATA TAAACTTGGT 60  
 TTACTGTAAT AGTGTGCTGT TCATGGAAAC CGAGGGCTGC ATCTTGTTTA TAGTCATCTT 120  
 TGTACTGTAA TTTGATGTAC ACAACATTAA AAGTACTGAC ACCTGAGAAA 170

(2) INFORMATION FOR SEQ ID NO: 1232:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 168  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01379  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1232:  
 GATCTGGGAT GGAATATGGT TTTCTTGATT CCCTTTCAGC CTTCAATTCT CTCTCTCAGG 60  
 ACTACTACTT TTTAATTACT TTTCACTTAA TTTCCCAATA CTGATGAAAT AAAGAAAAAT 120  
 GAGGGTTATT TATATACATT TCAATAAAAT CCAATTGAT TTTTCAA 168

(2) INFORMATION FOR SEQ ID NO: 1233:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 167  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01380  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1233:  
 GATCTAGAGA ACATAACAAA TGAACTCTA GAAATTTGAA AGAAAAAAAAA ACACTTAGCT 60  
 GTAAGTGCTT TGACCTATTT TTTTAAAAA AAAAAAAACC TGTNTTAATT CTGTGACTGN 120  
 ATTGNACCCT TCACCAGCAC TANGNGAAGT NGGANTGGAN GAAATTN 167

(2) INFORMATION FOR SEQ ID NO: 1234:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 167  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01381  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1234:  
 GATCAAGCCA TCGGAGCTGC TAGAGTTCTG TCTGGACTTT CCAGAGACCA GTATTCCCTT 60  
 TTGCTGCCTC TAAAAGGCCT GTCCCTGCAG ACATGAGAGA CAGCAGGTCT CATGGGGGTG 120

ACAAGCTTTT TTTTTTTTTN TAAANGATTT TCNAAANNNA ANTNNCCN

167

## (2) INFORMATION FOR SEQ ID NO: 1235:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 167
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01382

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1235:

GATCTTTTGT CTTCCAGTCT TCTCTTAGTG TCCTGCTCCT AGGTTTCCCT CTCTTCTGGT 60  
 TCTTCTCCCA GGTATTCTCT TCCCAGGCCT CTCTGGCCAC TGCTTTGTAT CAGGGTTTTT 120  
 CACGCTTTTG TAGAACTGAG GTTTCAATAA ACAGTTTCAG TTGCAAA 167

## (2) INFORMATION FOR SEQ ID NO: 1236:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 167
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01383

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1236:

GATCCTCCAG CCCACCACCA CATAGTAATC ACTGACACTG TGGGGTGTCT CAGCTGGGGT 60  
 TCTGCTGTGT GTGTGTGTAT TTNACAAAAT ATGTATGGTT TCTGTTTCAGC TCTTTTCAGT 120  
 TAACAGATGA ACTGNNNNNTA TCATTAAATA TTTTGTAAAA CATGAAA 167

## (2) INFORMATION FOR SEQ ID NO: 1237:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 171
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01384

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1237:

GATCCATCAG TAATGTAGCT AGCTGTAGAG CTTGCAACTT AATAGCAGCA GCTGCCCAAT 60  
 GCCATGTNAA GTAACAAACT GGTTTTTGGT TTTTTTTTTT CCCTTCAGTT TAAATGTNAT 120  
 GTGNAATGTA TTAAAACCTT TATTAAATA AANCTTGTTT TCAGAAATAA A 171

## (2) INFORMATION FOR SEQ ID NO: 1238:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 166
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01385

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1238:

```
GATCTGGGGT TGGGTCATGA CACCAGCTAC CAATTTNAGA ATATTATTCC TNGGTTTCTT 60
TATGAAAAAT GGGTGCTAGT GGTAATTCCT TNGTGGCTTA GTAAACTACT CTNTGGATGA 120
TTTCCAAACA TTCAAAGCCA ATAGCCTNGT NATNAACAAG ANATTN 166
```

(2) INFORMATION FOR SEQ ID NO: 1239:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 165

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01386

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1239:

```
GATCAAAACC CAGCAGAGTG CAAGCAGCAG TGAAGCAGGA TGGTCTACCT TCTGCTTCCC 60
TGGAAAGGAT GAATTTACAT CATTGTGACAA GCCTATTTTC AAGTTATTTG TTGTTTGTTT 120
GCTTGTTTTT GTTTTTGCAG CTAAAATAAA AATTTCAAAT ACAA 165
```

(2) INFORMATION FOR SEQ ID NO: 1240:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 165

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01387

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1240:

```
GATCTGTCTG TGTTGTTATA TATTCTTTTA TGCATACTTA AAGTTAAAGG GTTTTATCCA 60
CTGTCATTTT AATTGGATAA CATTGTGTCA AGTTTTTTTT TCCTGATTAT TTGATGTAGC 120
TGGATTCAAG AATGGATTGC CTNATCAATA AAGAATATTT AGAAA 165
```

(2) INFORMATION FOR SEQ ID NO: 1241:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 166

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01388

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1241:

```
GATCCTATTT TGGGCCTGGG GTGGGTATAC CTGNGGCTGG TCTTAGGAGG GTGCTAGGCT 60
GCAGACTGCC TTGTACTCCC TGGACACCCT CAAATGGGGT TTTCTGTGTT ATTTCATAAA 120
ATTCTTTGAA GTCCAATAAA GCATGTAGGA GATTTTAACC ACTAAA 166
```

(2) INFORMATION FOR SEQ ID NO: 1242:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 164  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01389  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1242:  
 GATCAAAGGN CAAAAGACCA AAAATCAGCG GGCTGAGGAT GGAGCACAGC CATGAACCTG 60  
 CTCACGACAA GACGCACCCA TGCTTCTCAG GGTCAAGGCT TTATGTTAAA GCTTCCTGTC 120  
 GGGGCTGCTA GGTCAGCATT AAAGTAAGGC AACCAACAGT NAAA 164

(2) INFORMATION FOR SEQ ID NO: 1243:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 163  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01390  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1243:  
 GATCTGCTCA GTAATATAAT TTGCCATTTT TATTAGAAAT TTAATTTCTT CATGTGATGT 60  
 CATGAAACTG TACATACTGC AGTGTGAATT TTTTGTGTTT GTTTTTTAAT CTTTCTAGTGT 120  
 TTACTTCCTG CAGTGAATTT GAATAAATGA GAAAAAATGC AAA 163

(2) INFORMATION FOR SEQ ID NO: 1244:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 163  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01391  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1244:  
 GATCTGGATT TGCTTTACCT TGTTAATATT ATCTAGGGGA AAAAGTGCAA ATTGCTCCAT 60  
 GTTCTTCTCT CCCTTATGTA ACATCTCCTG AGGGTGTGTTA GTTGCATGGC TGTTTCAGAAA 120  
 GGTATTAAGG GCTTAGGCCA AATCTTACTT TGAGTATGTT AAA 163

(2) INFORMATION FOR SEQ ID NO: 1245:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 162  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01392  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1245:  
 GATCGTCAAA AAGAGAACCA AGAAATTCAT CCGGCACCAG TCAGACCGAT ATGTCAAAAT 60  
 CAAGCGTAAC TGGTGGAAAC CCAGAGGCAT TGACAACAGG GTTCATAGAA GGTTC AAGGG 120  
 CCAGGTCTTG ATATGATGCC CAGCATTGGT TATAGNGCA AA 162

(2) INFORMATION FOR SEQ ID NO: 1246:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 197  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01393

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1246:  
 GATCTGGAAG TGAACACAGT TTATGTACAG GGAAAAGGAT TTTATTATCC TTAGGAATGT 60  
 CATCCAAGAC GTAGAGCTTG AATGTGACGT TATTTAAAAA CAACAACAAA GAAGGCAGAG 120  
 CCAGGATATA ACTAGAAAAA GGATGTCTTT TTTTTTTTTT TNNCNCCCCC TANTAANCNT 180  
 GNTGCTGCCT NANTTTN 197

(2) INFORMATION FOR SEQ ID NO: 1247:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 160  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01394

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1247:  
 GATCTCAATG CCAATCCTCC ATTCTTCCTC TCCAGATATT TTTGGGAGTG ACAAACATTC 60  
 TCTCATCCTA CTTAGCCTAC CTAGATTTCT CATGACGAGT TAATGCATGT CCGTGGTTGG 120  
 GTGCACCTGT AGTTCTGTTT ATTGGTCAGT GGAAATGAAA 160

(2) INFORMATION FOR SEQ ID NO: 1248:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 160  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01395

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1248:  
 GATCTGAAAA TCGACCTCAA CTCAAGGGTG GTCAGCTCAA TGCTACACAG AGCACGGACT 60  
 TTTGGATTCT TTGCAGTACT TTGAATTTAT TTTTCTACCT ATATATGTTT TATATGCTGC 120  
 TGGTGCTCCA TTAAAGTTTT ACTCTGTGTT GCACTATAAA 160

(2) INFORMATION FOR SEQ ID NO: 1249:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 159

(B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01396  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"-unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1249:  
 GATCTGCATG ACCTATAATC TTTGAACCAC TTCGTACCT CATGTTTTTA TCCAGCACTC 60  
 TTATTGTAAT ATGTACTAGT CTGTGAACAA TGTCAAATAA AAGAGAACGA ACAGGTAGTT 120  
 TGGTGGAGCT GAGCTAGTGT ACAATACACT AGTTGTAAA 159

(2) INFORMATION FOR SEQ ID NO: 1250:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 159  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01397  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"-unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1250:  
 GATCTTGGA TTCTTGNTG GATTTNCACA GTTTTAAAA TTAATCATGT CAGCCCAATG 60  
 CAGCTGTGTC ATTGCCACCT AGTGGTAAAA CTAACATTAC TGTTAAGCTG TGTGATTTTA 120  
 AACTTGAATC CCCAGTAAAN GGTTCACCTGT TCTGTGAAA 159

(2) INFORMATION FOR SEQ ID NO: 1251:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 159  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01398  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"-unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1251:  
 GATCCCTCTG AGAGTTGATG AGGATGTGTA ACAAGTATTT NCTTCTATNG TGCCTGCCAG 60  
 GGCTGAAGCT GCCTGGTATC CAGGAGGGGA ATGCTGGTAT CCCCATATGN CTGTNTTGT 120  
 TTGAGATTTT TAATAATAAA TAATAAATTT TTGAAGAAA 159

(2) INFORMATION FOR SEQ ID NO: 1252:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 158  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01400  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"-unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1252:  
 GATCCTATTC TTGTAAAAAT ATTTGTATGT ATGCACAGAA ATCTGCAAAG ATGTACACTT 60

AGTGAACCTGG TTACCAACGA ATGGTGGGAC TAACTAAAAT GGTCTTTTCTTA CTTATATGTG 120  
 CATTCTCTTTT TATAATAAAA ATGGGTTATA TGCCTAAA 158

(2) INFORMATION FOR SEQ ID NO: 1253:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 158
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01401

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1253:

GATCTGCCCT GTGTTATCCA GTTATGAGAT AAAAAATGAA TATAAGAGTG CTTGTCATTA 60  
 TAAAAGTTTC CTTTTTTTATT CTCTCAAGCC ACCAGCTGCC AGCCACCAGC AGCCAGCTGC 120  
 CAGCCTAGCT TTTNCCCNNTT TTTTTTTTTT NNNCNNTN 158

(2) INFORMATION FOR SEQ ID NO: 1254:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 157
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01402

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1254:

GATCTCAATC TTCGGGGTGT GATGAATAGC GAATCATCTC AAATCCTTGA GCACTCAGTC 60  
 TAGTGAAGAT GTTGTTCATTA TGTACAATAC ATAAGTAGTT TAATTAATA TGTGATGTTA 120  
 ACTATTATTA ATAAATTTTA ACATTTTCCA AAATAAA 157

(2) INFORMATION FOR SEQ ID NO: 1255:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 157
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01403

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1255:

GATCCGGATG NGGGGAGCTC TGTACAGAGG GCTGGTGATT GTAAAAATTT CTTTGTAAA 60  
 GTAGAAGTTG GGGGTGGGGT GGGTGCTGGC TGCAAAAATT TCTGGCTTCT CTTACCCCTA 120  
 TTGCCCCCGG CAATAAATTG TTTCTATATG CCAGAAA 157

(2) INFORMATION FOR SEQ ID NO: 1256:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 160
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01404

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1256:

GATCTTATTT GGAATTGACA TTCTCTATTG TAATTTTNTT CCTGTTTATT TTAAATTTN 60  
 CTTTTTGTTT CACTGGAAAG GAAAGATGAT GCTCAGTTTT AAACGTTAAA AGTGTACAAG 120  
 TTGCTTTGTT ACAATAAAAC TAAATGTGTA CACAAAGAAA 160

## (2) INFORMATION FOR SEQ ID NO: 1257:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 156  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01405

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1257:

GATCTTTGTN CTTGACCTCT AGACCCCAAG ATGTGAACAG TGCACGTTTT AATGTCATCT 60  
 TTNCTCATGT GTTATAAGCC CCAAGTTGCT GTATATTTC ACAAGTATGT CTACACACTG 120  
 GTCATGATTT TNATAATAAA TAACGATAAA TCGAAA 156

## (2) INFORMATION FOR SEQ ID NO: 1258:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 155  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01406

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1258:

GATCTTGCTC TGATTATAAT GCCAGTGAAT GTTGCTGAAC TCTTTGTATA TGCAAATTGC 60  
 AAGATTTAAA CCATTCTGAT GCAAGGATAA ACCTTTACTT TGACTACCAG CCTGTGTTTT 120  
 TGTCTTTAAA TCTCTTAATT TCATTCCTCT GCAAA 155

## (2) INFORMATION FOR SEQ ID NO: 1259:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 155  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01407

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1259:

GATCTGCACT CCCACTCCCC CCACACTTCC CAAAGTGCTG GGATTACAGG CATAAGCCAC 60  
 AAGCCACCTC ACCCAGCCAA CATGTTACAT CTTAATTCTT GGATTTTCTT CACTGCAGGG 120  
 CTTTGGGTGG AGAAATAAAA CTCTTCAAT GCAAA 155



## (2) INFORMATION FOR SEQ ID NO: 1260:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 155
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01408

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1260:

```
GATCTGGGAG TGCTGGACGT CATCTTCCAC CNCACCCAGC CGTGGGTCTT CTCCTCGGGG 60
GCAGACGGGA CTGTCCGCCT CTTACCTAG CTGTTCTGCC TGCCTGGGGC TGGGGTGGTC 120
GTGCTGAAGT CAACAGAGCC TTTACCCTGT GCAAA 155
```

## (2) INFORMATION FOR SEQ ID NO: 1261:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 158
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01409

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1261:

```
GATCTTGGAG GCCAGCCAGC TGAAGGAGAC ACTGCAGGCG GTGCCCAAGC CAGGGGCCTT 60
TGACCTGGAG CAGGTGAAGC GTTCCACCTA CTTNTTCAGC TGACACCCCG TGACCTTGT 120
CAGTGTGTAA ATAAAGCTCT TTTGCCACCC CCAGGAAA 158
```

## (2) INFORMATION FOR SEQ ID NO: 1262:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 151
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01410

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1262:

```
GATCCATCAT NGATGTAAAA GTTCACAATC ATGGTTCAAA TGTAACAGTG CAGAATTGAA 60
TATGGAGGCA TGCATAACCT TCCTCTTAGA AAATGGCAGG TGTTGTAATT TCAAATTTTT 120
GTGCAATTAG ATTAAATCAT AATGCAACAA A 151
```

## (2) INFORMATION FOR SEQ ID NO: 1263:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 154
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01411

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1263:

GATCTGATGG GTTTATCAGG GGTTCCTACT TTTGTTTCTT CATTTTCTCT TGCCACCAGC 60  
ATGTAAGAAG TGCCTTTGGT CTCCTACCAT GATTCTGAGG CCTCCCTAGC CATGTGGAAC 120  
TGTAAGGCCA ATTAAACCTC TTTTCTTCC CAAA 154

(2) INFORMATION FOR SEQ ID NO: 1264:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 154  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01412

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1264:

GATCAGCACC TTGTATAGGA ATTCCCATGA ATTATGACTT CTCATTCTGT TTTATCAGAG 60  
TGCATATATG TCCTACTTCA GGAAAAGTAA AACAGTCATT TACGAAAGAA AGTCAATCTG 120  
TATCCTAAGC ATTTTAATAA AAAGTTAAAA CAAA 154

(2) INFORMATION FOR SEQ ID NO: 1265:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 153  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01413

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1265:

GATCCTGGCC TGAGAATTGA GGGGAGGTGG CCAGCCCGCA GAGGTGGGGT GCTGGGGCTG 60  
CATGATTTTN GCCCTGCGTC CTTTCTCTTT GGGGCTCCTT TCCCCTCTCA TACATAAAAT 120  
CGCTTTCAAA TTAAATCGC TGTTTTCTGG AAA 153

(2) INFORMATION FOR SEQ ID NO: 1266:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 163  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01414

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1266:

GATCCGAGTG AAGCCCCAGG TCTCANAGAG CAAGCTGTAG CCAGATGGTA CCAGCTTCGC 60  
CTGGGGCTTC AAGAACCTCC CATCTATCCC CATTCTGAN ACAGGGAGTT ACAGTCCCTT 120  
TTTGGCCCTC ACATNCAATA AANGTGACTG ATANCACTGG AAA 163

(2) INFORMATION FOR SEQ ID NO: 1267:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 153

- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS01415
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1267:

```
GATCTGGCAA CACGTTTTNN TTGGAATATT TGTGTTTTCT TGAGGAGGTA TAATTACTGT 60
ATCCTAGGTG TGAATTTTTG AGTGCAGATG CACATTTTAA AGAAATNATG ATTAANCTGA 120
TAATGTTTTT NGGCTGAAAA TATAAANNA AAN 153
```

(2) INFORMATION FOR SEQ ID NO: 1268:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 152
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS01416
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1268:

```
GATCATAAAT CAAGGAATGC TGACAGCCAC TAAAGCTGGA GAAGGCCAAG GACAGATATT 60
CAATCCTCCC GTAGAAGTAC AGCCCTGCTA ATGCATTGAT TTTGGACTTC TGGCCTCAGA 120
ACTGTAAGAG AATAAATTTT TATTGTTTTA AA 152
```

(2) INFORMATION FOR SEQ ID NO: 1269:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 152
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS01417
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1269:

```
GATCAGACCA ACAGTGCTGT TTCCGGGAG GAACACTTTT TNATTNTTAC CCTTGCAGC 60
TCCACCTTT AATCTGTTTT ATACCTTGCT TATTAAATNN GCGCTTAAAT NATTGAAATA 120
ATGCTGNCTT AGTAGCAACT AAAATGTGNC TN 152
```

(2) INFORMATION FOR SEQ ID NO: 1270:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 156
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS01418
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1270:

```
GATCCCCCT ACCCACCCA GTCCCAAATC CAGTCCTCTG GCCCTTGCCT AGCCCTGAAT 60
```

TGCTTCTCTA AGCTGGTGTT CCCATGCACA GGGCCATTCA GGAAGGGCTG GGGGAGTGTG 120  
TGTGGCAATA AAGCTTGAAG GCACCGTGGG AGCAAA 156

(2) INFORMATION FOR SEQ ID NO: 1271:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 151
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01419

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1271:

GATCCTCTTC TCTCCAAATG TTAGCCATCC TGAAGTAGCC GAACAGTAGA AACTTTGGTG 60  
GGGATTAACC GGGAGCTTGA AAATTTGTNT TTGGTAACCT GATACTGGAC AGCTGAACTG 120  
AATGGCTGCA AAATAAATAC CTCACATGAA A 151

(2) INFORMATION FOR SEQ ID NO: 1272:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 93
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01420

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1272:

GATCCTGGAG GACCCTGGGC CCCAGGCCAG CTCCCATCGC TGGGGGACGG TGAACGGCCA 60  
TGTGTTAATG TTACGATGTT TTTAAAAGAC AAA 93

(2) INFORMATION FOR SEQ ID NO: 1273:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 149
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01421

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1273:

GATCCCCTTT GTCAGTGGGG AAACCAAGGC AGAGCTGAGG GGACAGGGAG GAGCAGAAGC 60  
CATCAAGATG GTCAAAGGGC CTGCAGAGGG AGATGTGGCC CTCCTCCCC CTCATTGAGG 120  
ACTTAATAAA TTGGATTNAT GACACCAA 149

(2) INFORMATION FOR SEQ ID NO: 1274:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 151
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01422

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1274:

```
GATCTCAACG TGCTGATATG GAAAGTGCTT CAGAATGTAT TAAGGACATA AATTAAGTGT 60
ACAATAATGT GTGTGTGTGT ATATATGTAT ATGCTTACGT GTGTATGGAA AGTATCTCAG 120
CAGATACAAT AAAA ACTTAA TTGTGATTAA A 151
```

(2) INFORMATION FOR SEQ ID NO: 1275:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 149

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01423

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1275:

```
GATCCTCCCT CTATTTTGCA AACAGTCTGT AAGTAACTNA TAAAACTTTA AAATATGCAA 60
ATTTTAAAAAT TATATAGTTT GATTACTCA TCAAATTATC ATGTATGCTG TTATTTAAGT 120
ATGAATAAAG GCTTTT TTAA ATNGGGAAA 149
```

(2) INFORMATION FOR SEQ ID NO: 1276:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 254

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01424

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1276:

```
GATCCTACTC CTTTGAGTA AAAGTAGTGC TTACCAGTTT CCAATTGTAT TTAGCTTCTG 60
GTTGGAATTT GAAAAAAAAA GAAAAAAGA AAAAGAAAAC CTAAATAAAA TAGGTGAAAG 120
TTCCCTGACT ATTCAGGTGA ATACACAAAG TTTGAAGTGT TAACTTTTTC TTTCCATTTC 180
ACTGATGTTA CTGGTCACCT TAGAGAATTA TTTCATAGTC TGTGGCTAAA TAGTAAATTC 240
AGANGAAAAA TAAA 254
```

(2) INFORMATION FOR SEQ ID NO: 1277:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 148

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01426

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1277:

```
GATCCTACTG TTGAGTTAGG AAAATATGGT TAGACAGACT CACATTACTT TTTTTCAGAG 60
GTAAACTCTA GATTACTGTG TCAACCCAAT ACTATTGGC CATAGATGTA AAACTACCA 120
AATAAAAGTG GATTTTGTGG TCTACAAA 148
```

## (2) INFORMATION FOR SEQ ID NO: 1278:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 148
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01427

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1278:

GATCCACAGT GGAGTCTCAG TAATTATATC TCCTTGATTT CTTCAATTNC TCTTCTGCTA .60  
 TAAAGTAGA GATAATGTGT AGTCACTNCT CATTAGTGA ACCAATTGTN ATANTTCTGG 120  
 AAATCTNTTN TCTTTAAGTG TAAATANN 148

## (2) INFORMATION FOR SEQ ID NO: 1279:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 124
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01428

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1279:

GATCCCAATC AGATTCCCGC TAATGGAAGA AGTTTAGAAT CTTTCAGGTG GAATAAAGTC 60  
 ACATGAAAC AAAACACAAC TATATATATT TCCAGTTTTT TTGCCTTATT GATTTTTTNC 120  
 CAAA 124

## (2) INFORMATION FOR SEQ ID NO: 1280:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 147
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01429

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1280:

GATCTTTGGG GAGATACATC TTATAGAGTT AGAAATAGAA TCTGAATTTC TAAAGGGAGA 60  
 TTCTGGCTTG GGAAGTACAT GTAGGAGTTA ATCCCTGTGT AGACTGTTGT AAAGAACTG 120  
 TTGAAAATAA AGAGAAGCAA TGTGAAA 147

## (2) INFORMATION FOR SEQ ID NO: 1281:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 147
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01430

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1281:

GATCCTGACA CTAAGGAATG CTGAAGCTTT GGACTTCGGC AGTCTTCCAC CTTAGTCAT 60  
 CAGCTACAGT TGAATGAAT TTNAAAACGC TCGGGACCTG TTAATNTNTC CTGTAGNCTG 120  
 TATTATNTNA AAAATCTGGG CAACAAA 147

## (2) INFORMATION FOR SEQ ID NO: 1282:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 147  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01431

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1282:

GATCTCGCTC CCCCCTTCGG TTCTTTCGAC CGGTCCCCC TCCCTTTTTT GTTCTGTTTT 60  
 GTTTTGTTTT GCTACGAGTC CACATTCCTG TTTGTAATCC TTGGTTCGCC CGGTTTCTG 120  
 TTTTCAGTAA AGTCTCGTTA CGCCAAA 147

## (2) INFORMATION FOR SEQ ID NO: 1283:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 146  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01432

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1283:

GATCTCAGTT CCTGGCTTTC CCCCAGCCT TCTCACCTT TGTGTCTGTG TAGTGATTTG 60  
 GTGAGAAATC GTTGCTGACC CTTCCCCAGA CCATTATGA GTCNAAGTTT ATTATTCAAT 120  
 AAAAGTGCTN TATGCGCTTT CTCAA 146

## (2) INFORMATION FOR SEQ ID NO: 1284:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 146  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01433

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1284:

GATCCAAAGA TGAGGGGATT NTTTCAGAAA GACAATCTCG GCATGCATTA TTTCTTTNNT 60  
 TTGAAGATTC ACTCATGTTG CATGCATCTN TAGCTTGTCN CTTTTTAATT CCTAGTAGAT 120  
 TCTGTCATAT GCCTATCTNC AATTNN 146

## (2) INFORMATION FOR SEQ ID NO: 1285:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 167  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01434  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1285:  
 GATCCCCATG CTAAGAAAAT GCCCAAAAAA ATAGGCAAAA CACGAGAAGA GCTAGGGTAA 60  
 GAGAAGGACG TAAACAGAAC CTGACACCAG CTCCTTTTCC TTCTATACAT TATTTAATAC 120  
 CTATTAAATA AAATNATTTT TGAATAAAG CTTGTGGGAA CATTAAA 167

(2) INFORMATION FOR SEQ ID NO: 1286:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 179  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01435  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1286:  
 GATCAAAAAG GCTTATAAAA CAGAGTAATC TTGTTGGTTC ACNCTTGNGA CCGTGAAGAT 60  
 ACTTTGTATT GTCCTATTAG TGTTATATGN ACATNCAAAT GCATCTTNCA TGTGTTGTTC 120  
 TTGGCAACAA ATTTTGAAAA GTAATATTTA TTAAATNTTT TTGTATGCAA ACATGCAA 179

(2) INFORMATION FOR SEQ ID NO: 1287:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 145  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01436  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1287:  
 GATCCGATGG GAGTGTAAT GTGAGACACA ATGTCTTGAT TATACCTGTT TGTGGTTTAG 60  
 CTTTGTATTT AAATAAGGAA ATAACTTGA AAATNATTG TCATCATAAA AATGAAACAA 120  
 ATNAAAATAT TTATTGCCAG GCAA 145

(2) INFORMATION FOR SEQ ID NO: 1288:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 145  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01437  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1288:



GATCAGGGCA TGCAACCAAA AGCAGCTTAA ATGAAATATT TTAAAATAAA ATATCAGGAA 60  
 GCTATTTTTTA GATTTCTNCT GGCTTATGTT TCTACTTTAG GACCCTCATT GTNCTCTTAT 120  
 TAAAAAAAAT TATTTCTGT GCAA 145

(2) INFORMATION FOR SEQ ID NO: 1289:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 145
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01438

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1289:

GATCAGATTT TTTTGTACC TACGTAAGAG TACTTGAAGT TTTATTTAAA ATAAAATGTT 60  
 GTGGAAAAGG TAGCATTCTT TTTTAGGAG TGTATTTTTT CACTATGTGT GGCACGGATA 120  
 CAATAAAGA CTTTACAAA CTAA 145

(2) INFORMATION FOR SEQ ID NO: 1290:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 145
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01439

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1290:

GATCCCAGGG CTCCCTGCCA TTTTAGTGTC TTGGTGTAGT GTAACCATT AGTGTTGGT 60  
 GCCATTTTTT TTTTGTNCA AATGATTAA ATNATTGGAA TNCACAATT TTAAATATN 120  
 CAAATAAAN GTTTAAACC TTAA 145

(2) INFORMATION FOR SEQ ID NO: 1291:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 145
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01440

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1291:

GATCAGGAAT TCTAAATAAA TTTCCAGTT AAAGATTATT GTGACTTCAC TGTATATAAA 60  
 CATATTTTTA TACTTTATTG AAAGGGGACA CCTGTACATT CTTCCATCAT CACTGTAAAG 120  
 ACAAATAAAT GATTATATTN ACAA 145

(2) INFORMATION FOR SEQ ID NO: 1292:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 144
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single

(D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01441  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1292:  
 GATCTGCCAG CACCCTGTGG GGCCCAGACT ACAGGCTGAT GGCGGAGGCT TCGAGTGACC 60  
 CGGGTGCCGA GGAGCGGGAA GAGTTGCTGG GGTAAGGGTC TGCGGCGACG CCGGCGCCCT 120  
 GTGCCGTGTC CACGGGTGCA TAAA 144

(2) INFORMATION FOR SEQ ID NO: 1293:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 144  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01442  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1293:  
 GATCTAAATA TTTTNNAGCT GAGTTATTAG GGAGTCATTA TTCTGTGGTA CAATGCTGCA 60  
 AAAAGCATCA TGTGGAAGAA TGGGAACAT GCTTACTTTA TGAAGTGATG TATAACACAA 120  
 TGAAATCTGT TTTACAACATA CAAA 144

(2) INFORMATION FOR SEQ ID NO: 1294:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 372  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01443  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1294:  
 GATCTTGGA GTATCCCTGG CTGCTAAGCC TATGGCAGGG GTGGTCCTTT CTACATTCCC 60  
 ATTCACCTAA CAGCTCTTTT GGGATTGGGT GTTTCATTCC ATTTCTGCCC ACTCCCTCTC 120  
 CTCTCCTCTC TGGTAGGTTT AATTTTATGC TTTCCCTGAT TCCAGCTTTC TGCTTCCTGA 180  
 GGACTCCCGC TCCCNCCACC CCAAAGTTTG TCTGTGGGTG TTATAGTGGT AACTGCAGTT 240  
 CCCTCCTCTG GGAATNGTAG GCTGTAATAG GNTTAATAAA CTCNACNTNC TCTAATCNTT 300  
 GCTNAAAANG TGGGGGTAAAN GGGGATGGCN TTGNCCCGG GTGGGAAANT TAAANNTGGT 360  
 GTTTANGGNA AA... 372

(2) INFORMATION FOR SEQ ID NO: 1295:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 145  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01444  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1295:  
 GATCTTCTCT GTGGGGGAAA AGGAAGAGGA GGGTCTTGTT CTCCANTNT GTTTATTCTT 60  
 TGGGCTCTGG GAACAGGGGA CTACTTTGGG GCTTTCTCCA ATNCTNTTGT ATGNTGTTAT 120  
 TAAAGCGAG CTATTGCATT TCAAA 145

(2) INFORMATION FOR SEQ ID NO: 1296:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 141  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01445

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1296:  
 GATCTTATAT CCTGTGACCT GTCTAAATTC AATCTGTTAG TTTATCATT TTTTAAAAA 60  
 ATGTCCGTGT GTGTCTTCCT TGAGATTTTC TACATTATCA TGTCATCTGC ANATAAAGAC 120  
 ATTTACTTCT TTCTTTCCAA A 141

(2) INFORMATION FOR SEQ ID NO: 1297:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 141  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01446

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1297:  
 GATCCAGTTG TACTAAGGTG TACAGGATAT TTGCAGATAT AGGTAACTG AATGAAGCAT 60  
 ATTAATAACT GCATTTNCCT AACTTTGAAA AATTTTNCAA ATGTCTAGGT GATTAAAAA 120  
 ATGAGATTGG GCTATTGCAA A 141

(2) INFORMATION FOR SEQ ID NO: 1298:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 140  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01447

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1298:  
 GATCTAAAT AGATATGTTG GATTGATATT CTCACGTGTT CGGTGTGGAA AACAAAACAA 60  
 GTACATGCTT TAGAAGCAAC AACAATGAAA TCCTTTTGAA ATNTGTGTTA ATATCGTTA 120  
 NTAAAATACC TAGTTTGAAA 140

(2) INFORMATION FOR SEQ ID NO: 1299:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 140  
 (B) TYPE: nucleic acid

(C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01448  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1299:  
 GATCCATAGA AGGGCTTCCC AAACCTTGTT TTGCAACATC CCAAATTGTC TCCAGTTGAA 60  
 GGAAGGCCTT TATCAGATTC ATAGATGAGC TTTCATTGTA AAAATAAATG TACTTTGCAC 120  
 CACTTCATGA TGGAGGGAAA 140

(2) INFORMATION FOR SEQ ID NO: 1300:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 140  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01449  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1300:  
 GATCTGAGGT TTTTAGATTT TAAATATTTA TGTGGAATTA ATTAAAGGTA GTTGGCTATA 60  
 TCGCTATCAT TTCATTCTTT TGACATTATT TGAATATTTT ACTGGAAAAT AAGACTAATA 120  
 AATTGTATAA AGTTTTTAAA 140

(2) INFORMATION FOR SEQ ID NO: 1301:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 139  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01450  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1301:  
 GATCTTCACA AAGTTGTCTT TTCACTGTGT TTTGTCAACG TGAAATTAAA TTGTAGTTAT, 60  
 AAGCAAAAGT TGGTTGCCTA GGGAACAATT GTATATNCAG TTTAACAGAA ATAAAAGAAT 120  
 ATTTGTCTTA AGATGCAAA 139

(2) INFORMATION FOR SEQ ID NO: 1302:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 138  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01451  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1302:  
 GATCGNCACA TTTCCCAAAA ATAATAAAAA AATCACTAAC CTTTTTTAAG GAAAATATTT 60  
 AAAGTTTTAC AAAATTCAAT ATTGCAATNA TCAATGTAAA GTACATTNA NTGCCTTATN 120

AAAACCTTTC CAATTAAA

138

## (2) INFORMATION FOR SEQ ID NO: 1303:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 137
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01452

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1303:

GATCATTTTT TCGGTCTCCG AGGTGAAATG ACTTATTAAT TAAAATTTGT AAACTCACAT 60  
 ATGCATATTG TATATGTGTA GAAATGTAAT CACACTTTGT CTTGGAATTA CATTAAACTG 120  
 TTTGAAATCA CTGTAAA 137

## (2) INFORMATION FOR SEQ ID NO: 1304:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 136
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01453

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1304:

GATCTTTTTG TGATTGCTTT CCCGTCTCTA AGTAGTATTC TGTTGTGTCT AGAGAACTGA 60  
 TTTTTCCTA CATACGCAAA TTGTACATTT GTAAGTGAAA ATNTCAATAC ATTAAAAGCA 120  
 TTANCCTAAA ANCAAA 136

## (2) INFORMATION FOR SEQ ID NO: 1305:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 136
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01454

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1305:

GATCAGCTGG GTTTTGGCCA GGAAGTTGTC TTTGTGGACT CTGCCTGCAT GGCTTAGTAG 60  
 TTGAAGGAAA TTTTTTTTTG GTTTTGTTTT TTATAATTCA GTTTAATCAA TAAACATGTA 120  
 TTTATTGACT GTTAAA 136

## (2) INFORMATION FOR SEQ ID NO: 1306:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 136
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01455  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1306:  
 GATCCCTTTA TGAGTTTTC TATTTTGGCA TGCTACATGT AAGTTTTCCT TAATGTTTTT 60  
 ATGTAAAGCA TCTTCCTCCT TTTACTTCTT TTATTGTGAT AAAACTCATA TAAAATTGAC 120  
 CGTTTTGAAG TGTAAA 136

(2) INFORMATION FOR SEQ ID NO: 1307:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 136  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01456  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1307:  
 GATCTGGGCC CGACCCTCAC TACCCCTGAG ATATTAGTTC CCAGGCCTGT TTTCCACAG 60  
 GATTGTGGGC TCTCTGCTTC CTTAGTCGGA AGTNTTTTCA ACTAATCAAA TAAATGAATG 120  
 AATGATGAAT AAGAAA 136

(2) INFORMATION FOR SEQ ID NO: 1308:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 135  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01457  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1308:  
 GATCCCAAAG ATATTAAATA TATGCAAATA TTCCAAAGTC TGAAAAAATC CAACATCCAA 60  
 AAACACTTCT GACCCAAGCA TTTCAGATAA GGGACCAGAA TTATTAGATT AAATAAGGTA 120  
 TATTATTAAG TTAAG 135

(2) INFORMATION FOR SEQ ID NO: 1309:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 135  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01458  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1309:  
 GATCAGGCCA AGAGGTTGCA CAGGGCATGA TACTGCACCC TGCCTGACCC AGCTGGGCTC 60  
 ACAGGTCAGG GGAGAGTTGG GGCAGGTGAA TGTCAGCATC AGGCTTCTNN TTTTAAACTT 120  
 TTAAANAAAT ACAA 135

(2) INFORMATION FOR SEQ ID NO: 1310:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 135  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01459  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1310:  
 GATCCTGCCT CAAAAAAAC AAAAAATTC TTTATTTTCT CCATAAACTA CAGTTTATAT 60  
 AAGCAAAGT TTCAGTACTA AGCAATTNA GTCTCTGCAG TCTCTNGTNT TGANTTAATA 120  
 CAACTTTNGT NAATN 135

(2) INFORMATION FOR SEQ ID NO: 1311:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 139  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01460  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1311:  
 GATCTACCTG TGGCCCGGCC TCCCTAATGT NATTCACATT GAATGGGGAT GAGGTCGGAC 60  
 AGTGGCTCAT AGAGCGAGTA TGAGCCCTAG CTGTGGGCTA GAAATNTCCT TAATAAACAT 120  
 CCTTATTTTC NTNTTTAAA 139

(2) INFORMATION FOR SEQ ID NO: 1312:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 134  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01461  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1312:  
 GATCCTAGTA TGTTGATAGC TTTNATTTTG TGAGTGGTTT ACTAGTCATT TATTATGATT 60  
 CCCATGANCT CTGATATGAT TCATTGTGGT TTTAACTCAG GTTGAATAAA AGCATCCATT 120  
 TCTTTTATAG GAAA 134

(2) INFORMATION FOR SEQ ID NO: 1313:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 237  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01462  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1313:

GATCTCAAGG TTGATAGTGG TGTTCACTAG GAGACGTGGA ATTGAGACTA ATAACTTGGA 60  
 TGTTAACACT GTTTACTGTT TTTTCACATG TAGAAATGTT CTTTGTGTAT TTTTCTACA 120  
 GAGGATTTTC TCTGATTTTA TTTTCTTTGT TTCTGACTCT AATAATTAGT TGGAAACTCA 180  
 TATAAATGA GCTTTCCTAA ATTAAATCTA TTTTAAATAA AGGTTATTAC TATTAAA 237

## (2) INFORMATION FOR SEQ ID NO: 1314:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 134
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01463

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1314:

GATCTATAGG TTTATTAGAA NCCTNACCAC AGNATCCAGA TTATCTTCAG TATTCTNTCA 60  
 GTACAGCTCT CTGCAGCTTA AACTCGGTGG TACATAAAGA AGATGATGAA CCCAAAATGN 120  
 TGGNCACTGT ATAN 134

## (2) INFORMATION FOR SEQ ID NO: 1315:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 133
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01464

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1315:

GATCAGAAAA TCCCTCTGAC ATCTCCACTG CCCCCAAAGA CCTCCGTTGA ACATTCTGTA 60  
 TGGAAAAGAG CCCTGGAGCA TCAGGTTCCC CAGATAGGCC CCCAAATAAA GACCTGTCTA 120  
 TGGCTCTCCC AAA 133

## (2) INFORMATION FOR SEQ ID NO: 1316:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 132
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01466

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1316:

GATCTAGCTG GCTGTAGTAT TGCNTTGATA ATTTTTTTCT TTTAATTTAC CTAATATATA 60  
 TAAGGAAGGG GTTTGGATAT ATTAAATAG GTGTTAATTT TATCTATTTA CCAATAAATT 120  
 CATCTCTTTA AA 132

## (2) INFORMATION FOR SEQ ID NO: 1317:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 130



(B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01467  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1317:  
 GATCCAGCCA TTCCTGAAGC CCACCCTGCA CCTCATTCCA ACTCCTACCG CGATACAGAC 60  
 CCACAGAGTG CCATCCCTGA GAGACCAGAC CGTTCCTCAA TACTCTCCTA AAATAAACAT 120  
 GAAGCACAAA 130

(2) INFORMATION FOR SEQ ID NO: 1318:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 130  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01468  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1318:  
 GATCTAAAAG CCAACTTTTT CTCAGTNTTA CTCAGTGGAA AGATAAACTA AGTTTTAATG 60  
 TTATNTTTTT AAATNTAAGC AAAATTTATT TCTGTNCTNT AATAAATAAG AAAATGTGGT 120  
 CCACTGCAAA 130

(2) INFORMATION FOR SEQ ID NO: 1319:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 129  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01469  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1319:  
 GATCCCCTGC TCCTGTTGTG TTCTGTTGTA AATCATTTGG CGAGACTGTA TTTTAGTAAC 60  
 TGCTGCCTAA CTTCCCTGTG TTCTATTTGA GAGGCGCTG TCTGGATAAA GTTGTCTTGA 120  
 AATTTCAAA 129

(2) INFORMATION FOR SEQ ID NO: 1320:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 128  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01470  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1320:  
 GATCAGAATT TTAAAGCAG AATTTTGTC AAGGGTCAT TTTTGTCT ACCCCTTTTA 60

CACTTTTCAG ATTCTCAAAG TGTCTCATCT CAACTTTTAA AAGAATAAAG AATATCTTGC 120  
TGGGCAAA 128

(2) INFORMATION FOR SEQ ID NO: 1321:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 128
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01471

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1321:

GATCCTTGTC AGATGAAAAT GGATTCACAG CTCTGGCAGT TCCCAATGTC TGGGGAGGGG 60  
TATAGGTTTG AAAGGCTGTT TGAAAGAGGA ATGTTTAATA AAGGCTTTGA TTTAATCTTG 120  
AAAAGAAA 128

(2) INFORMATION FOR SEQ ID NO: 1322:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 128
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01472

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1322:

GATCTCGAAG TNACTCCGGG CTGAGCAGTG GGGCGGCTGG GGGAGGGGTG ACGATTCTCC 60  
TCAGGCTTTG GCCCTGCAAG CAAACCCACA TATCTNCTCT GTATGTAATA AATNTNTTAA 120  
CGTCGAAA 128

(2) INFORMATION FOR SEQ ID NO: 1323:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 129
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01473

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1323:

GATCCTGAAG CNGCACTTAC CTNTGAANAG TCTTCAAACCT TTAAACCTT GCCAGTNAGG 60  
ACTTTTNTCTA TTGCAAATAG AAAACCCAAC TCAACCTGCT TAAGCAGAAA ATAAATTTAT 120  
TGATTCAAA 129

(2) INFORMATION FOR SEQ ID NO: 1324:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 127
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01474  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1324:  
 GATCTGTGAA GTTATTTTGT AAGGACATAC ATTTGGTAAG TAAGTTTGTG TCCCAGGAAA 60  
 TGTATGTNTT TTAAACCCT TTCTAAATAT GCAGGCCATT AATAAATAAG ATTGTTTCTT 120  
 CCCTAAA 127

(2) INFORMATION FOR SEQ ID NO: 1325:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 127  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01475  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1325:  
 GATCAGAGAG ATTTTNTTTT TAAACTACCA TGGTCCCAGG ATTCCATCCT GAAATNAATT 60  
 TTCCTTTGTA TGAATATGTG TAAATAATTT AAAAATAAAA CTGTAAAANA TTTGTNCGAA 120  
 GAATAAA 127

(2) INFORMATION FOR SEQ ID NO: 1326:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 137  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01476  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1326:  
 GATCCCCCTT CATTTGATGT TTGGAAAATN CCAGTAATTA TCATTTTTC AACGAATATG 60  
 GATACCACAT AGTACTTTGG TGTTACCTGC TTTTGAAAAA TAAAGTCTTT GGTTCACCCG 120  
 GTGAACTATT TATGAAA 137

(2) INFORMATION FOR SEQ ID NO: 1327:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 126  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01477  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1327:  
 GATCCTCAGC CTCCAGTGG TCTTTGTAGA CTGCCTGATG GAGTCTCATG GCACAAGAAG 60  
 ATTAACACAG TGTCTCCAAT TTTAATAAAT TTTTGCCCAT TTCTTATTAA AAAAATTGT 120  
 TGTAAA 126

## (2) INFORMATION FOR SEQ ID NO: 1328:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 129
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01478

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1328:

GATCCATCTG TGTAGTTTCT GAACAGTCAG CGATTCCAGG TTTTAAATAG TTTGTAAATT 60  
 TTCAGTTTCT ACACACTTTA TCATCCNCTC GTGATTTTTT AATTAAAGCG TTTTAATTCC 120  
 TTTCTCAA 129

## (2) INFORMATION FOR SEQ ID NO: 1329:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 125
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01479

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1329:

GATCCATGCT TTA CTGTGTT TAATGGGGGT AACAGGGGTC CCTACAGCCC TCCCAGCTAA 60  
 ACATTTGGAA CAAACACCA GCCCTTTTGT AGTGGATGCA GAATAAAATT GTTAATCCAA 120  
 TCAA 125

## (2) INFORMATION FOR SEQ ID NO: 1330:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 124
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01481

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1330:

GATCTGTGTT GAAAGTNGTA TATTTTATC TGTNCGGTGC TGAGTGCAGG CCACCAGCTC 60  
 CTAAATAGAG GTTCCCTATA TGC GCGTATG ACATGGTGAA TAAACACAAC TCTCTCCACT 120  
 CAAA 124

## (2) INFORMATION FOR SEQ ID NO: 1331:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 124
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01482

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1331:

```
GATCGTTGTA ATTNNTTGAC ATTCCTTTNA GAAGTTGTGA AATGTTACAA CTTGTNCTTA 60
TG TAGACACA ATCTCCTGTC TCAGTACAGA GGCCTGACT TCAATAAAGT CTATTATAC 120
TAAA 124
```

(2) INFORMATION FOR SEQ ID NO: 1332:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 129  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01483

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1332:

```
GATCAAAAAA TGGAAATGTA TAATTAAATC ATACTTAGCA AATCTAACAC ATGAAATGTA 60
ACATCTGCAT ATGGAGAATC GTGTACTTTT ATTGAAAAAC ATTAAANGTT TGAGANCTTA 120
AGTTGGAAA 129
```

(2) INFORMATION FOR SEQ ID NO: 1333:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 122  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01484

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1333:

```
GATCTGCCAA GATTCTTTGA ATACAGATAA TTAATGTAAA CAATTATCAT AAGTATACTA 60
ACATGTTATN CTTTTTAAAT AAGAAGGTAT AATAAAATAT CCCATTGGTT TNATGTATTA 120
AA 122
```

(2) INFORMATION FOR SEQ ID NO: 1334:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 122  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01485

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1334:

```
GATCGGGCCN TTGGCTGTAA GACCCGACCC TTCGAGAACC CGANACGAAA CGCTCCATTA 60
CCACTGCNCA GTGAGATGAG GGA CTCACAG TTCCAAGAGG NTTCTTTCCC GTGGNCCCCT 120
NN 122
```

(2) INFORMATION FOR SEQ ID NO: 1335:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 121

(B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01486  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1335:  
 GATCCAACCC TGTACTGATA GTACTTCCCA GTATGATATT GTGATGTTTC ATACAATGCA 60  
 GTGAACATAA CCAACTTGTT ACCTAAATAA AGANTTGATA AAAACAGTGT GACATATTAA 120  
 A 121

(2) INFORMATION FOR SEQ ID NO: 1336:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 120  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01487  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1336:  
 GATCAAGGTC TGCAAGGGAA TTCTTGTGTG CTGCTTTCCA TTTGACACCG CAGTTCTGTT 60  
 CAGCCATCAG AAGAGAGACA AGGNATTAAA AATTTCTTTT TAATCNGTT ACCAAATAAA 120

(2) INFORMATION FOR SEQ ID NO: 1337:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 119  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01488  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1337:  
 GATCTAGTAG GCACGTCTGT CAACAGGACA CATGCCTCCT CTGACTATAA CCTCTTAATA 60  
 GTTGTGTATA ATGAAAACCTG TAAACTTTTT TAAATAAACN GTGTATATAC CTTGGCAAA 119

(2) INFORMATION FOR SEQ ID NO: 1338:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 120  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01489  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1338:  
 GATCCTGAAG CCATGGTTTC TTCCCTGCCA GAAATGAAAG GTTCAGTTAT GAGGCAACCC 60  
 TCTAGTAAGG CATTGTAAAA GTTACTGGAT TTGGTTTAAT AAAAGTTGAA ATAAAGTAAA 120

## (2) INFORMATION FOR SEQ ID NO: 1339:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 322
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01490

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1339:

```
GATCTTCCGA GTGCTTGGGG CCCACAGAGA CATCATCTTG GAGAGCATTC CCACTGACAA 60
CCCAGAGGCG CACAGCAACC TCTACATCCT CACGGGCCAC CAGAGCACCT ACTAAGAGCA 120
GCGGGCCTGT CCAGGGGCTC CCCGNCCCAC CCCACGCCTT AGCTGCAGGC CCTTTTGGGC 180
AAAGGGGCCC ATCCTGGGCC ATCCATTCCA TTTTGTTCCT CATTTCCTTT CTACTCTTTC 240
TGCCAAGAGN CTGCCCCTGC ATTTGTCCTG GGAAACACGG TATTTAAGAG AGAACTATAT 300
TGTGTATTAA GNTGGTTTGT TN 322
```

## (2) INFORMATION FOR SEQ ID NO: 1340:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 118
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01491

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1340:

```
GATCTTTGGA GCAAAAGCCA ACGGCAGGAA AAAATAGTTT GTACCAGTTT CATGAAGTAT 60
GTCTTTGGGT TTTTGTAAT AATTTTAACT CAAATAAAAT TGCTACTTTC AATACAAA 118
```

## (2) INFORMATION FOR SEQ ID NO: 1341:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 118
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01492

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1341:

```
GATCAGAAATN AAATNTGTAT AGAGCAGAGT TTTAAAATGA ATGTAAATAG CACTAAACGT 60
NTNCTTTCTG CAACCTGTAC TTACAGATTC TCCCTGTAAA CTAAATAAAA AAAAANTN 118
```

## (2) INFORMATION FOR SEQ ID NO: 1342:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 118
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01493

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1342:  
 GATCACAAAA TGTGCATGAG NGTTATTNAC TTTATTCTNG TACAGTACTA GGATTCCTGT 60  
 AACCACTCTT TTTTCTTTC GNNGTATTGA AAAGTGGTTC AGTGTTAACC AGGCAAGN 118

(2) INFORMATION FOR SEQ ID NO: 1343:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 118  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01494

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1343:  
 GATCAATTCA CTTAAAAGNA TGGCCCANAT AGCACNNATA GGACCAAGGG ACACATGTAG 60  
 TCANTTTTTA AAAACATGTA CTTGGTCTTT TGTGTGTGTC TGTTATATTC CATTAGAN 118

(2) INFORMATION FOR SEQ ID NO: 1344:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 117  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01495

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1344:  
 GATCCCAGGA GAGCTGGGCT ATGACTGCAA TAAGGAGTTG TTCCTTCACC TGAGATGTGC 60  
 TTCTTTTGGT TCATTTCTGG CTTGACAACA AGAAATAAAC GTGGTATGTT CCTGAAA 117

(2) INFORMATION FOR SEQ ID NO: 1345:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 119  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01496

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1345:  
 GATCTTGAGG GACCCAACAT TTGTAGGGGC ACTAATCCAG CCCTTAAATC CCCCAGCTTC 60  
 CAACTTGAG GCCCACCATC TCCACCATCT GGTAATAAAC TCATGTTTTT TCTGCTAAA 119

(2) INFORMATION FOR SEQ ID NO: 1346:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 116  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear



- (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01497
- (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1346:  
 GATCAGATTT GGGTGGGAGA AAGAAGTGGG TATCAAGGGT GATTGAATT TTCTGCAGCA 60  
 TTAAAGTGGC GTTAATAAGA TAAGTAATAA TAAAGAATTC TAACATCCAT GTCAAA 116
- (2) INFORMATION FOR SEQ ID NO: 1347:
- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 116  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01498
- (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1347:  
 GATCCGGTGG AAATCCAAGC TCTGGGCTGG TAATTTTAT GAGCATTTTC AGCTTTTGCA 60  
 AATACAAAAT ATAATNCTTT ACAAAAATAA ATTTTATNC TAATCTAAAT CTGAAA 116
- (2) INFORMATION FOR SEQ ID NO: 1348:
- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 115  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01499
- (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1348:  
 GATCTTCTCT ATGATTGATA CATGGCACAG TGAGAGATTA ATGGGCATTG TGTACAAATT 60  
 GCTTCTCACC ATCCCCATTA GACCTACGAA TAAAGCATCC GGTCTAAAA TTAAA 115
- (2) INFORMATION FOR SEQ ID NO: 1349:
- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 118  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01500
- (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1349:  
 GATCTTTTTT TAAAGGACC AAATGTTCTT TTATAATGT AATAAGGAAT ATCTTGCTCT 60  
 TTAAAATTTA TTAGGNNTTT AATGAGTAAT TTNATTAAA AGATTCTTT TTTTGAAA 118
- (2) INFORMATION FOR SEQ ID NO: 1350:
- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 192  
 (B) TYPE: nucleic acid

(C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01501  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1350:  
 GATCCTATTT GTTTCATTTT ATTGTAAATN CCCATTTGCA TCAAAACCTA ATNATAGTGA 60  
 TNGGTAAGTA AAAACAAATG GTGTATTGCT TTTCATACAA GTGTTTTTCAC AAAAGCCATT 120  
 TGCCTAGGCA GCAAAAAATA TTAATTTGTT AAAAAAATT TTCCTTCGTG TCCATCCNCA 180  
 NAAANTNGNG NN 192

(2) INFORMATION FOR SEQ ID NO: 1351:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 115  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01502  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1351:  
 GATCTGTGGA CTTTCATCAN ATTATGAGAC TNNCTCAATT TCATGACTGT ACTACCTGAA 60  
 ACAAGTGAG AAAGGACAGG TGTATTTTNN TAAGTCATCA AGATAAATCC TTAAN 115

(2) INFORMATION FOR SEQ ID NO: 1352:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 150  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01503  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1352:  
 GATCTTAGTT TGTAGCTTAT GACTTATTTA ATGAATGGAT GCCCAGCCAA GCTCAGAGTA 60  
 GGCGCCCAAA GCATTGTGGA TTATTTTCCT GTTTTGTCTT TTTTTTTTTT TTTTTTNAAG 120  
 CCATGNCANC CCNGANGGGG CCAGNGANTN 150

(2) INFORMATION FOR SEQ ID NO: 1353:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 113  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01505  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1353:  
 GATCGNNAAG AGGTTACCCA GACCACACAC AGTTTGAGAA AACATNCCCA TTATNACCCA 60  
 TCTAGCAAAG AGGCACCCTA AGTGGTCCAT GAAGAGTTTA ATTTTATNTT AAN 113

## (2) INFORMATION FOR SEQ ID NO: 1354:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 113
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01506

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1354:

GATCGGGTTT AGACGNNAGN TCATTCAGTG AAGCAAGCCA AAAGCNCACA TTTGTATGCC 60  
 TTAGGTCTTC TTAAATGGT ATCTGTAAAC ATGTGTCCAA TATAAANCT ATN 113

## (2) INFORMATION FOR SEQ ID NO: 1355:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 411
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01507

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1355:

GATCCTCCCT GCCCGCGAAG TGNACAGTTT ACAAATTAT TTTCTGCAA AAAGAAAAA 60  
 AAGTTAGTT AAAAACCAA AACTACATA TTTTATTATA GAAAAAGTAT TTTTCTCCA 120  
 CCAGACAAAT GAAAAAAG AGGAAAGATT AACTATTTGC ACCGAAATGT CTTGTTTTGT 180  
 TGCGACATAG GAAAATAACC AAGCACAAG TTATATTCCA TCCTTTTTTAC TGATTTTTTT 240  
 TTCTTCTATC TGTTCATCT GCTGTATTCA TTTNTCCAAT CTCATGTCCA TTTTGGTGTG 300  
 GGAGTCGGGG TAGGGGTAC TCTGTCAA AGGCACATTG GTGCATGTGT GTTTGCTAGC 360  
 TCACTTGTC ATGANAATAT TTTATGATAT TAAGGNAAAT CTTTGA AAA A 411

## (2) INFORMATION FOR SEQ ID NO: 1356:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 112
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01508

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1356:

GATCATGGTG TAATAAGACA TAACGTTTTT CCTTTAAAAA AATTTAAGTG CGTGTGTAGA 60  
 GTTAAGAAGC TGTTGTACAT TTATGATTTA ATAAATAAT TCTAAAGGNA AA 112

## (2) INFORMATION FOR SEQ ID NO: 1357:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 112
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01509

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1357:  
 GATCAAGTGC ATTTGACAGA AAAGTTCAGT TTCTTGGGAA GAAACACCTT TTAAGCTGAA 60  
 TGGAGAAAAT NCCAAAATAA ATTATATCAC CACAATGGTG TATACTCAGA AA 112

(2) INFORMATION FOR SEQ ID NO: 1358:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 112  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01510

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1358:  
 GATCTGGGAA AAAACAAGA GACTCAATGG AGACAGAAGA AAATCCCAAG GTTCTAATAA 60  
 CTNCNTTCTN AAAAANTATC TACCCCATTT GGTGAAGTGA AAANCAGAAA AN 112

(2) INFORMATION FOR SEQ ID NO: 1359:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 112  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01511

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1359:  
 GATCCTGGTT GGAGTAAACA TTCCATGGGA ACTCGGGCTG TNAGAAATNTC CTAACCACCT 60  
 GANTGCAGAA ACATCCTTAT CACATCCTNC TGGGAAAGNC CAACAGCCTG AN 112

(2) INFORMATION FOR SEQ ID NO: 1360:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 112  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01512

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1360:  
 GATCCATCAC CTGNGCAGCA TAACTGGCTT CNNCTCAGTC ATCCACACAA CACCAGGACT 60  
 TAAGACAAAT GGGACTCCCT GTCATCTNGA GCTATNCATT TATTAAACT GN 112

(2) INFORMATION FOR SEQ ID NO: 1361:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 111  
 (B) TYPE: nucleic acid

(C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01513  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1361:  
 GATCCCTTCA TTGATGTTTG GAAATTCCAT ATTACATTTT GCACGATATG GTACACATAG 60  
 TACTTTGGTG TACCTGCTTT TGAAAAATAA AGCTTTGGTC ACCCGGTGAA A 111

(2) INFORMATION FOR SEQ ID NO: 1362:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 111  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01514  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1362:  
 GATCAGAGAA TGCAGCAGCA GTTTTTTCC TNGTTNCTT ACCACTTTAT TCTTTCANAG 60  
 TTAAAGAAA ATGGACTCAT GCACAGAACA CTATGCATTT NAAACTNGT N 111

(2) INFORMATION FOR SEQ ID NO: 1363:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 111  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01515  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1363:  
 GATCGGGGGC GTANATNCAT AGTAGTTTTT ACAGCTGTGT TATTCTTTGC GTGTAGCTAT 60  
 GGAAGTTGCA TAATTATTAT TATNATTATN ATAACANGTG TGTCTTACGT N 111

(2) INFORMATION FOR SEQ ID NO: 1364:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 110  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01516  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1364:  
 GATCTCAAAA CAGTGCTAAA ATCAAAGNTG TNGACTGTAA AGAAAAACAT GTATATATAT 60  
 TGCACCTNAA AGTTGTCAGA AGNTAGAAAC TNAAATAAAC TAACTTTAAA 110

(2) INFORMATION FOR SEQ ID NO: 1365:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 109  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01517  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1365:  
 GATCCCACGC CACAGCCTTT TGNTNTGCAA CTGCCTTCTT CGGAAAGAAG AAGTGGGAGG 60  
 ATGTGAATTT TAGTTCTGAG TTTACCAAT AAAGAGATAT AAGACGAAA 109

(2) INFORMATION FOR SEQ ID NO: 1366:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 109  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01518  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1366:  
 GATCATGTAC TGAAGTAGTT TAAGCAGGCT GGCTAACTTA GACTNATTGA TTCTGCNTTT 60  
 GTACTNNAAT AGGGGTTATA ATTGTAAGAT AAAAATGTGT GTGTNCAAN 109

(2) INFORMATION FOR SEQ ID NO: 1367:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 236  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01519  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1367:  
 GATCTGGGGG TTTCTTCATA TTCCTGCTGT TGGAAGCAGT TGACCAGAAA TGCTTGNCAG 60  
 NACTGCCAAA GCACTGCTGT GAAATGTGAA GTACTTTGTT TTTTATTTT TAATNATTTT 120  
 CTTTTTGTTA TTAATATTTT TCTCTGTTCC TTTGTTATTA CTTGCATGGT TTGGCGTCAG 180  
 AAGTCCTTAC CTCTTTATAT TGTTTGCAGG TTAAATAAA ACAGTGTGGT GCCAAA 236

(2) INFORMATION FOR SEQ ID NO: 1368:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 108  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01520  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1368:  
 GATCTTGAAG TTATTTTAA GACATACATT TGGTAAGTAA GTTGGTCCCA GGAATGTATG 60

TNNTTNAAC CCTTTCTAAA TATGCAGNCA TTAATAAATA ANATTGTN

108

(2) INFORMATION FOR SEQ ID NO: 1369:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 107
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01521

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1369:

GATCCAACCC AAATCAAATT GTTAAATGCC CTCTTGAATT TTTTGTCTG TTATTTAATT 60  
ATATGGTGA ATTAATAATA AAATAAACTT CATGTCTCTG ATCAAA 107

(2) INFORMATION FOR SEQ ID NO: 1370:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 107
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01522

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1370:

GATCTNGAGC TCTGTCTTCA GCAGATTTC AAGTGTAACAT TTGTAACTC GTACTNGAAG 60  
GTGTGTCCTC AAGAAGAAAG TTTTCAAATT AAAAAAGCTG CTGCAA 107

(2) INFORMATION FOR SEQ ID NO: 1371:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 107
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01523

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1371:

GATCATGTAC ATTGTAACGT GTGTCGTCAG TACTGCAGTT CCTCAACTTT NTTTGTCTNT 60  
NATTACCATG ACATTTTAA AGATACAGCT ATTTTNTCGA TGTNAAA 107

(2) INFORMATION FOR SEQ ID NO: 1372:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 286
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01524

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1372:  
 GATCACATCT AAAGCTTTAT CTTTGTGTAA TCTAAGTATA TGTGAGAAAT CAGAATTGGC 60  
 ATAATTTGTC TTAGTTGATA TTCAAGGCTT TAAAAGTCAT TATTCCTGGG CTTGGTAAGT 120  
 GAATTTATGA GATTTACTGC TCTAGAAAGT ATAGATGGCG AAAGGACCGT TTTGTATTGC 180  
 TTCCTGATTA CCAGTCTGAT TATACCATGT GTGCTAATAT ACTTTTTTTG TTATAGATTG 240  
 TCTTAATGGT AGGTCAAGTA ATAAAAAGA GATGAAATAA TTAAAA 286

(2) INFORMATION FOR SEQ ID NO: 1373:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 107  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01525

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1373:  
 GATCCGCGCA CCTAAGCCTC CCAAAGTNCT GGAATTACAG GCATGANCTA CCATNCCTGG 60  
 CCTTCTAATG TTTTTCNTAA TTAAGGCTCT NAACTTCCAA GACTGTN 107

(2) INFORMATION FOR SEQ ID NO: 1374:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 106  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01526

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1374:  
 GATCTAGAGG NGAGAAAAAG ATGANTTGCT CCTTACATTC GATAATCAGT GACCACGAAA 60  
 CACTCAGACC AGAGCCTGGC TTATCAAAAA CCTTNAGTGA GNNCTN 106

(2) INFORMATION FOR SEQ ID NO: 1375:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 106  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01527

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1375:  
 GATCCACGTG CCATTGTGGA GGCAGAGAAA AGAGAAAGGN TTTATATACG GTACTTATTT 60  
 AATATCCCTT TTTAATTAGA AATTAAAACA GTTAATNCNC TTCAAA 106

(2) INFORMATION FOR SEQ ID NO: 1376:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 117  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single



(D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01528  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1376:  
 GATCCTGAGC TCCCTTTGCA GTCTGAAAAA GGTATTGCAG TCAGAACTGT GTACTGATGA 60  
 TAAANGCCTC TGGTAGCAAT AAAAAGTTGT CCCTAACAAA AGAGGCAAAA AAATAAA 117

(2) INFORMATION FOR SEQ ID NO: 1377:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 105  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01529  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1377:  
 GATCCAGCAA ACAGGTTCTN TTTAAGAAAA ATAATTTATA CTAAATTNAG TAAATGGAC 60  
 TTCTTATTCA AAGCATCAAT AATTAAAAGA NTTATTTNAA TGAAA 105

(2) INFORMATION FOR SEQ ID NO: 1378:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 105  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01530  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1378:  
 GATCAGCAAA ATGAGATAAA TGTTTCTNTT TTCCTTTCTG ACTGCATTAA ATCAGATACA 60  
 ACTCAGCATT AAAAAGCTAT CTNTGTAAAT NTNGTNACTA ATAAN 105

(2) INFORMATION FOR SEQ ID NO: 1379:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 105  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01531  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1379:  
 GATCTAACAC GAGGAACATA TCATGGAAAG TGCATNGTAT NTATTTTAGG GTTATGAGTT 60  
 CTTTCAAGGG CTAAGNTGCA GAGNATTTC TCCANGAATC GTGTN 105

(2) INFORMATION FOR SEQ ID NO: 1380:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 105

(B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01532  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1380:  
 GATCAGGTTA CATGAGGGNT CACTCTTCTT GTTGACANN CTGTGAGTTC GGGCAAATNT 60  
 GTAATGGCAT ATCTCCACTA TTACAGTNTC ACACAGAATT ATTTN 105

(2) INFORMATION FOR SEQ ID NO: 1381:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 332  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01533  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1381:  
 GATCGGTGCG TTCTCCTGAT GTTTTNCNT GGCTTGGGGA TTGTACACGG GACCAGCTCA 60  
 CGTAATGCAT TGCCTGTAAC AATGTAATAA AAAGCCTCTT TCTTTTGGG GTGGNNNTTG 120  
 TCCTTCTGTC AGCTAAAATG GGAGCTCATG AGAGAAGGAC GTCAGGGAAA CGGGGTTGAG 180  
 GGTGGTCTCG GTGCAGAGAG AAGGGTGTCA GGGAAACGGG GGGTGAGGGT GGTCTTGGTG 240  
 CCAGACGTAG GGAATGGTGT TGGGAGTGGC CCGAGTGCCT GGCACAGTTG TCTNGTTCAT 300  
 TCATGTAACA TGATAATTTT TAAATCATTAA AA 332

(2) INFORMATION FOR SEQ ID NO: 1382:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 157  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01534  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1382:  
 GATCCTGCTG CTGTAATGGG AACCCCTCCC CCATTTACTT CTCCACCTCC CGTCCTCCCC 60  
 ATCATTGGTT TTTTTTTGTG TGTCAACTGT GCCGTTTTTA TTTTATTCCT TTTATTTTCC 120  
 CCCTTTTCAC AGAGAAATAA AGGTCTAGAA GTAGAAA 157

(2) INFORMATION FOR SEQ ID NO: 1383:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 103  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01535  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1383:  
 GATCTACTGT TTGTTGAAGT GTGGGAAAAT AGCCTCTCTA AGGCAGCCCA GATGGGACCA 60  
 AAATCAGTAC AAACATATTT AAGTAAATTT TAAAATGCGT AAA 103

(2) INFORMATION FOR SEQ ID NO: 1384:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 284
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01537

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1384:  
 GATCCCCTTG TCCCTGGAGT AGGGACTAAC TATAGCACAA AGTAATATGT GCCAATGCTA 60  
 TTTGTGAAAT GTTTGGGCTT TCTAAACGAC TAAAGGATTT GTNGGGTTT TNCTTAAGTT 120  
 TTGAACCAAA TCCTAGAGCC AGCTGATAAT ATTTAATAAT CTAGAGGAGA GAATAATGAT 180  
 GTACCANTAA GTGGAGATTC CTCCTTATGA TGTATGCTAG GTTATGGAAG ATGTAAAATA 240  
 TTCAACTTTT TCCTNCGTTT TTTGGACTTT GTATTTTACT GNAN 284

(2) INFORMATION FOR SEQ ID NO: 1385:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 103
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01538

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1385:  
 GATCTGGAAC TCCTAAGCCA TCTACTCCTA CACCAACCNN TTCATCGAAC NCACACCCTN 60  
 CTNATGCTCA GAGCTCAACT CCTAGTACCC CTTAGCCAC CCN 103

(2) INFORMATION FOR SEQ ID NO: 1386:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 104
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01539

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1386:  
 GATCGCCGTT CTGTTTNGCA TNNTCCCACC GGGAGTTGCC NGGCAGGAGC ATGGGGTGCT 60  
 TGGTTGTTTC CTTCTAATA AAATAAACGC GGGTCGCCAT GAAA 104

(2) INFORMATION FOR SEQ ID NO: 1387:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 102
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single

(D) TOPOLOGY: linear  
(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01540

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1387:

GATCTTAGCC TTAGGGTAAG TAAAATGGGT CTTTAAATAT AANAGTGTGA AAACATATTC 60  
NATCTAATAG TACTCTTTN AATAAAAGTC AGTAGTNGGA AA 102

(2) INFORMATION FOR SEQ ID NO: 1388:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 378

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01541

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1388:

GATCCTNGGT TTTTGTGGTT TGACTTCTAT GGNGTTTAA AAAACACAG ATTTTATAGTG 60  
TTAATATTGT GTAAATGTAC TCACCTTAGG GATTCATTG AATGATGGTN TTATACCATG 120  
ATTGTNTACA GTTTGTGAAA TTGTTGCAAG GGCAAAGATA ACTCTTAAAA AACCGTCGAG 180  
ATTACAATGC TCTAGAATCA GCATATAAGA AAATAAATGA TATCTNCATG TNGANTNNGG 240  
GTGGATGGGG GGAGCAGCA TAATTTTTTAA GTGTGAAGCT TTGCATCANA GAAATTATTA 300  
AAANGCTTTT TTNCTCCNGT ATNTTCCTGT ATTAATCCTT AATGTTTATG GCAAATAAAA 360  
TGTAAGGGGN ACATGAAA 378

(2) INFORMATION FOR SEQ ID NO: 1389:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 102

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01542

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1389:

GATCGTAACC GTAACCGTAA CCGNNAAGCA CAAACGGGGG GAGCGGGGCA GTGAGCGGGG 60  
CAGGNATGAG NCCCGAGGTG GGGTCGGTGG CCAGNACAAC GN 102

(2) INFORMATION FOR SEQ ID NO: 1390:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 102

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01543

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1390:

GATCCAGAGG TCCNNGTCAC TTGGAGAAAG NCCAGTCCCT GNGACGGGGC AGCCCTCTNT 60

GTCCCTCGGG CAGCTCGTGT GAATCCTGGG ACCTCTTCCG GN

102

(2) INFORMATION FOR SEQ ID NO: 1391:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 101
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01544

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1391:

GATCTCAGCA ATTTGAACAC TAACCTCTCC CCTCCTGGCT CAAGAATTAC TCCGAAGTCA 60  
GTCTGCAGAA AATAAATATT TAGTATGACA TGACACTTAA A 101

(2) INFORMATION FOR SEQ ID NO: 1392:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 101
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01545

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1392:

GATCTACTCA GGCAACNACC AATCTTCTAN TCTGTCACTA TAGATTAATT TGCATTNTTA 60  
AAGAAATNNA CATAATGGA ACCATACATC ATCTATGCTT N 101

(2) INFORMATION FOR SEQ ID NO: 1393:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 101
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01546

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1393:

GATCCTAGGA AGTNTGTCCC TGTCCTCCCT GTGCAGGGTA TCCTGTAGGG TGACCTGGAA 60  
TTCGAATTCT NTTTCCTTG TAAAATATTN NTNTGTCTCT N 101

(2) INFORMATION FOR SEQ ID NO: 1394:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 100
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01547

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1394:  
 GATCCACGTG CCATTGTGGA GGAGAGAAAG AGAAGTGTTC ATATACGGTA CTTATTTATA 60  
 TCCCTTTTAA TTAGAATTAA AACAGTTAAT TTAATTCAAA 100

(2) INFORMATION FOR SEQ ID NO: 1395:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 100  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01548

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1395:  
 GATCTTAGGT TACATAAAGT TTCTAAAGTT TCAAAGAGTC TTGATACAAA ATCAGTTTAT 60  
 ATTCTGAAAA TATTTATAAT AAAGTATTCT AATTCTCTAAA 100

(2) INFORMATION FOR SEQ ID NO: 1396:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 98  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01549

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1396:  
 GATCAATTCT TCAATTTGAT TGAAGTGTTC AGCCTTTTCA AGATTCTTTT ATTTACAAAT 60  
 GATTACATTT AAATGAATGT ACATTCTTCT CACTGAAA 98

(2) INFORMATION FOR SEQ ID NO: 1397:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 98  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01550

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1397:  
 GATCTGTAAC ATTTGTTTCA AAATGCTGTT TCATTTTAT AAAGTACCAG TGTTTAGCTG 60  
 CTTTTTATAC ATTAAATTAG CAATTTGAAA AACTCAAA 98

(2) INFORMATION FOR SEQ ID NO: 1398:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 98  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01551

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1398:

GATCCTCAGT GTCCTTACCC CCTCCTACCT CTTTCTGTG CCACCTGCTG TGGGTCCAGC 60  
 AGGCNTTTAC TTGAGTACAA TAAAAAGTCT GAGTCAAA 98

## (2) INFORMATION FOR SEQ ID NO: 1399:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 98  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01552

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1399:

GATCCAAGTG TAGTGGGACC CCCTACTAGG GTCAGGAAGT GGACACTAAC ATCTGTGCAG 60  
 GTGTTGACTT GAAAAATAAA GTGTTGATTG GCTAGAAA 98

## (2) INFORMATION FOR SEQ ID NO: 1400:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 104  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01553

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1400:

GATCTCCAAA GTGGTGAGTT TATGTGTGAT TTTTATTTTG TTTATGCTCT TCTGTATTTT 60  
 CCGAATTTCA TACAATAAAT ATCTGTTACT TTTACAATAT GAAA 104

## (2) INFORMATION FOR SEQ ID NO: 1401:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 94  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01554

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1401:

GATCCAGAGA GTTCAAGGGA TTGGGGAAAG AGAGGCGTCA AGTCATTTGC ACTTTGTACC 60  
 TGTAAGTTAG GTAATAAACT ATTATACTCG TAAA 94

## (2) INFORMATION FOR SEQ ID NO: 1402:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 92  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01555

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1402:  
 GATCTAGTNT CTNGCATTTT TATTATGTTG CTATATACTT TTGTTATCCG TATACTAAAA 60  
 AAAAGAATA AATAAATGTT TTGATTGTGA AA 92

(2) INFORMATION FOR SEQ ID NO: 1403:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 92  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01556

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1403:  
 GATCTNTACA TTCTTCAGAC TCATCGTGTG TTTGANACTT TTTATAATGA ACATATATCA 60  
 TTTTNNTTAG AAAAGAATAA AGTTTTTGAA AA 92

(2) INFORMATION FOR SEQ ID NO: 1404:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 119  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01557

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1404:  
 GATCCTCTGG GGAAGCCAGG ACCAGGAGAG AAGCAAGGTC AAGAAATCCC ACAGTTTGAT 60  
 GTATTAAAGA AATNACTTAT TTCTACTCAA AATAAATGGC ATTGAAGTCT TTCTTTAAA 119

(2) INFORMATION FOR SEQ ID NO: 1405:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 90  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01558

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1405:  
 GATCTTGTGT CTCCTCTCCA TCTCTGCCTT TGTTACCAGT GTGCATGTGT TTGTGTGTTT 60  
 TTTAATAAAA TATTGACTCG GCCAGTTAAA 90

(2) INFORMATION FOR SEQ ID NO: 1406:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 90  
 (B) TYPE: nucleic acid



(C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01560  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1406:  
 GATCTGTTAT GGCATTCACT TCCAGATTAA TTTTCCGTGT TTGAAGTATG TNCATATGTN 60  
 CTTTACAGAA TAAACATCT GAATTTTAA 90

(2) INFORMATION FOR SEQ ID NO: 1407:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 87  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01561  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1407:  
 GATCCATTTT CTTTCAAAT TTTCTTTATT GTAAAGTATG CAAAATATAT ATTCATACGA 60  
 TTTATTAAAT CAGAATGTTT ATACAAA 87

(2) INFORMATION FOR SEQ ID NO: 1408:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 85  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01562  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1408:  
 GATCTGGAAT CCTTTTCTG CATTGACAAG GACCACAGCT AAAGGACAAT AATATGAATG 60  
 ACTCATTAAT ATCTCAAAAC TTAAA 85

(2) INFORMATION FOR SEQ ID NO: 1409:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 85  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01563  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1409:  
 GATCCAAGTT ATNTTNAGAA GAAAAACCTA ATTGAACAGG TATGGGTTGG GAGCATAATA 60  
 AATGTGTTTT GAGAATTGTT CTAAA 85

(2) INFORMATION FOR SEQ ID NO: 1410:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 84  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01564  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1410:  
 GATCATTATT TCATGACTGG TGCCTTCCTA AACTCTGAAA TCAGCCTTGC ACAAGTACTT 60  
 GAGAATAAAT GAGCATTTTT TAAA 84

(2) INFORMATION FOR SEQ ID NO: 1411:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 84  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01565  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1411:  
 GATCTAAGCC CATGAGCACA GGGACTGGCT ATCCCAAGAC CTGGCAGATG TGGCTGCTCA 60  
 ATAAACACTT GTTGAACCAT CAAA 84

(2) INFORMATION FOR SEQ ID NO: 1412:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 86  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01566  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1412:  
 GATCACCCAA GGGTTTTTTTT GTGTCGGACT ATGTAATTGT AAATAATACC TCTGGTTCCC 60  
 CATTAAAAGT NCCCATTTNA GTTAAA 86

(2) INFORMATION FOR SEQ ID NO: 1413:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 83  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01567  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1413:  
 GATCTGTGTT TGTATCCCTT TATGTAATGT AAAATTTAAG GGTATTTTGA TTCTAAATAT 60  
 GATAAAATAA TTTCTCACCT AAA 83

## (2) INFORMATION FOR SEQ ID NO: 1414:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 83
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01568

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1414:

GATCAGCAGT CCACCACAAA AGCTTCTGTT AAAAGACCCT ACACAAATGC ACAAATTCAG 60  
 ATTAAACAAG GAAAAGACGG AAA 83

## (2) INFORMATION FOR SEQ ID NO: 1415:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 83
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01569

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1415:

GATCTTGGTG TTCAAACAG AACTGTATTT TTGCCTTTAA AATTAAATAA TATAACGTGA 60  
 ATAAATGACC CTATCTTTGT AAA 83

## (2) INFORMATION FOR SEQ ID NO: 1416:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 82
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01570

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1416:

GATCCTTCTG TAAAGGTTTT TGGAATTATG TCTGCTGAAT AATAAACTTT TTTGAAATAA 60  
 TAAATCTGGT AGAAAAATGA AA 82

## (2) INFORMATION FOR SEQ ID NO: 1417:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 86
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01571

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1417:

GATCTGCATA TTTCTGTATA TTTGTCATGA CAGTGCTTGC ATCCTATTTG GTGTACTCAG 60

CAAATAAACT TTTCATTTTA AACAAA

86

## (2) INFORMATION FOR SEQ ID NO: 1418:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 81
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01572

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1418:

GATCCCAACA TGGTCCTAGC ACTGCACACT CAGTTTCTNCT CTAAGAAGCT GCAATAAAGT 60  
 TTTTNAAGT CACTTTGTAA A 81

## (2) INFORMATION FOR SEQ ID NO: 1419:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 81
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01573

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1419:

GATCTTCANT TAATCNCACT TTAAAAATGA CCAAAACATG TCTTTCTTGA ATTAACTTTG 60  
 AATAAAAGTT TGTATATTAA A 81

## (2) INFORMATION FOR SEQ ID NO: 1420:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 81
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01574

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1420:

GATCAGAGCT CAGTTCCTGT AGAAAACGAA CTGTAAAAGA CCATGCAAGA GGCAAAATAA 60  
 AACTTGAAGT GAATGCTTAA A 81

## (2) INFORMATION FOR SEQ ID NO: 1421:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 80
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01575

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1421:  
 GATCTTGGGT TTGGTCTACC CACCCAAGAG AAAAGACTGT TAACTGGAAG AAAAAATATA 60  
 TATATNNAAT TTTATGTAAA 80

(2) INFORMATION FOR SEQ ID NO: 1422:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 79
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01576

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1422:  
 GATCACAATT ACCTTTAGTT GTTTTTTTTG TAATAATTGT AGCCAAGTAA ATCTCCAATA 60  
 AAGTTATCGT CTGTACAAA 79

(2) INFORMATION FOR SEQ ID NO: 1423:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 79
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01577

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1423:  
 GATCCTTATG AATGACAGGT TACTGTTTTG CTTATTGCT TAACTTAATG TAGTGAAATA 60  
 AAGCAGACAA AGCTTGAAA 79

(2) INFORMATION FOR SEQ ID NO: 1424:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 79
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01578

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1424:  
 GATCTTCTGC ATGAGACCTG GAGTTGGGGA AGCAAGGTTA CATTTGTATT NGTTTATCCT 60  
 ATGAATACTN TTCTTCAAA 79

(2) INFORMATION FOR SEQ ID NO: 1425:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 78
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01579

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1425:  
 GATCAGGCAG TCTGCTCAGA TACATTGAGT GGCGATTTTA AGTTTGTGTT TGAAAAAATA 60  
 AACAGATTAA CCTGCAAA 78

(2) INFORMATION FOR SEQ ID NO: 1426:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 78  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01580

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1426:  
 GATCTAAATT TCTAATGTGT TCTATGGGTT TCAATTCTGA AAAAAGAAAA TGAATAAAGA 60  
 TTTTAATAAA TATTGAAA 78

(2) INFORMATION FOR SEQ ID NO: 1427:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 78  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01581

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1427:  
 GATCTTCATT GTGCTGGGTG CCAGGNCAGT NATCCATTTT AAAATTTGTA ATTCAATAAA 60  
 GTTTTTTTTG TTNTTAAA 78

(2) INFORMATION FOR SEQ ID NO: 1428:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 77  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01582

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1428:  
 GATCTCCAGG CTTGGCCTCC AGAGCAGCCC ACACCAACNC CAAAATAAAA AAATGTATAT 60  
 ATTCCTTTAG CTCTAAA 77

(2) INFORMATION FOR SEQ ID NO: 1429:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 76  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01583  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1429:  
 GATCCCAGGG ACCTCAGTCG GCTTAATCAG AGTGTGGCAT AGAAGCTATT TAATGATTAA 60  
 AGTCATTTGC AGTAAA 76

(2) INFORMATION FOR SEQ ID NO: 1430:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 76  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01584  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1430:  
 GATCAAACCTT TTNATGTTCT TAATAAGCTT GCAATTGANT AAAATAGAAT ATAAAATAAA 60  
 GGTGAAATAA TATAAA 76

(2) INFORMATION FOR SEQ ID NO: 1431:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 79  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01585  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1431:  
 GATCCCAAGT ACAATGAAAA GTTTGCACTG TATGCTGGAC GGCATTCCTG CTTATCAATA 60  
 AACCTGTTTG TTTTACAAA 79

(2) INFORMATION FOR SEQ ID NO: 1432:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 75  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01586  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1432:  
 GATCTCCAAC NTTGGAAAAT ATACATGATG TGAAACTGNG GGTNCTATGT TAAAAATAAA 60  
 TGTATGATAA CTAAA 75

(2) INFORMATION FOR SEQ ID NO: 1433:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 74  
 (B) TYPE: nucleic acid

(C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01587  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1433:  
 GATCCAAACA TTTTTTTGTG TGTGTATGGC ATTGATGCAG AATAGAATAA AATTATACTT 60  
 AAGTTCTTTT TAAA 74

(2) INFORMATION FOR SEQ ID NO: 1434:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 73  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01588  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1434:  
 GATCCCGGCG CGGGAAAGTC ACAGAGCTGC CTGGGCTTGT ACCTGGNCAC ATAAAGCCCC 60  
 ANTTTAAAGC AAA 73

(2) INFORMATION FOR SEQ ID NO: 1435:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 73  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01589  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1435:  
 GATCCCANAG CNATAAAATA AAATTTTATT CCAAATAAC AAAACAAATT NATCTACTGT 60  
 ACACAATCTG AAA 73

(2) INFORMATION FOR SEQ ID NO: 1436:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 72  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01590  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1436:  
 GATCCAGGC TTCTGCGGAC CGACGATACG TTAAATGTT GTTCTAGTAA AGTTTTCGAT 60  
 ATGTTTCTGA AA 72

(2) INFORMATION FOR SEQ ID NO: 1437:  
 (i) SEQUENCE CHARACTERISTICS:



(A) LENGTH: 71  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01591  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1437:  
 GATCCCTTGG NGGNCTAGTT CGTATTTTTG TNTTAACTA TTTGTTAGAA TAAAGTAATT 60  
 TTGCTAATAA A 71

(2) INFORMATION FOR SEQ ID NO: 1438:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 70  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01592  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1438:  
 GATCTTAAGT ATAAAAATTT TGTAATTGGG CCTTTACTCT CTCAATAATA AAGTATTTTG 60  
 TTTATATAAA 70

(2) INFORMATION FOR SEQ ID NO: 1439:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 68  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01593  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1439:  
 GATCTGTATT TTCTAAGTCC CCAGTTCTCC TGGCTCTCCT TTCTGAAATA AAGGATTGAA 60  
 AACNGAAA 68

(2) INFORMATION FOR SEQ ID NO: 1440:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 67  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01594  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1440:  
 GATCTGTTTT TAAAAATCAT AAAGTGTGTG CAGACTCAAT AAAATCATGT ACATTTCTGA 60  
 AATGAAA 67

## (2) INFORMATION FOR SEQ ID NO: 1441:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 71
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01595

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1441:

GATCAACAGT TACTGTNACT GAGTCGGCCC ATTCTGTTTA GAAATATATT TNAAATGTTT 60  
AGTAATTGAA A 71

## (2) INFORMATION FOR SEQ ID NO: 1442:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 66
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01596

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1442:

GATCTGCCAT TTCATGCCNT GTGACTACNN ATCATTGGCC CTGCAATAAA ATCATTTATT 60  
TTTAAA 66

## (2) INFORMATION FOR SEQ ID NO: 1443:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 64
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01597

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1443:

GATCCTGCAT GCTACTCTTA GATAGAAGAT GGCAAAACCA TGGTATTAAA ATATGAATGA 60  
TAAA 64

## (2) INFORMATION FOR SEQ ID NO: 1444:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 64
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01598

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1444:

GATCAAGTCA CTNTTGACAA CATCCAGNG AATATAAAAA CTTAATAAAG CTGTGGAAAG 60

GAAA

64

## (2) INFORMATION FOR SEQ ID NO: 1445:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 62
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01599

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1445:

GATCAATTGG TTAACTTCT TTTATGTAAG TATGGTATAT AAATTTCAAG ACGAACACTA 60  
AA 62

## (2) INFORMATION FOR SEQ ID NO: 1446:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 62
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01600

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1446:

GATCACTTTT CACTTTTTGG AATGTTTTGT ATTGAACTT AATAAACTT TAACATGGCA 60  
AA 62

## (2) INFORMATION FOR SEQ ID NO: 1447:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 62
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01601

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1447:

GATCGNTCTC AGGCCCTCCC CCCGGAGTAC TTCAGAATGC AATAAATCAA AATAATGGCA 60  
AA 62

## (2) INFORMATION FOR SEQ ID NO: 1448:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 62
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01602

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1448:  
 GATCTGTATG TGTTCTATTC AGCACAAAGGA AATAAAATTT TAGTTGAGGA TTCAGCACTA 60  
 AA 62

(2) INFORMATION FOR SEQ ID NO: 1449:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 62  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01603

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1449:  
 GATCCCCATT CTTTTC AAAA ACAAAATAAA ACAATAAAGA CTGCAAGGAA GACTGANGGA 60  
 AA 62

(2) INFORMATION FOR SEQ ID NO: 1450:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 62  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01604

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1450:  
 GATCCAGTCT GGAATAACAT TTTGTAAAAA AAAAATATAT ATATATATAT ATATNGCTGA 60  
 AA 62

(2) INFORMATION FOR SEQ ID NO: 1451:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 61  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01605

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1451:  
 GATCGGGGGC ACCAGAGGGG CAGAGGCACC AACATCTGAA TAAAGCCATT GTTCTCCCAA 60  
 A 61

(2) INFORMATION FOR SEQ ID NO: 1452:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 61  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01606

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1452:  
 GATCTTGAC NTCTCGCATT CAGAACTGTG AGAAATAAAT ATCTATTATT TACAAATTAA 60  
 A 61

(2) INFORMATION FOR SEQ ID NO: 1453:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 60  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01607

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1453:  
 GATCTCCGTC TTGTATGGCT GAATGTTGGC CTAAATAAA GATTACTGTT GTAAATAAA 60

(2) INFORMATION FOR SEQ ID NO: 1454:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 62  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01608

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1454:  
 GATCTGTGGA GAATGTACAC AGTTTAAACA CATCAATAAA TACTTTAACT TCCACCGAGA 60  
 AA 62

(2) INFORMATION FOR SEQ ID NO: 1455:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 72  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01609

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1455:  
 GATCAAGAAT CCTGCTCCAC TAAGAATGGT GCTAAAGTAA AACTAGTTTA ATAAGCAAAA 60  
 AAAAAAACCA AA 72

(2) INFORMATION FOR SEQ ID NO: 1456:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 59  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01610  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1456:  
 GATCTAGATG TTTCTTTAAC CAAGATGAAT TAAAATATAG TAGAGTTCCA CTGTNCAAA 59

(2) INFORMATION FOR SEQ ID NO: 1457:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 63  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01611  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1457:  
 GATCAAATTG TACCTTTTTA GAGAAAAGGA CCAAATAAA AGAAAAATGA ATTATGAACT 60  
 AAA 63

(2) INFORMATION FOR SEQ ID NO: 1458:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 59  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01612  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1458:  
 GATCAGCAGT CTTGGATGGN AGGNAACAAA GCTAAATAAA TGTTAGTTTG GTGAGCAAA 59

(2) INFORMATION FOR SEQ ID NO: 1459:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 65  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01614  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1459:  
 GATCTCCCTT ATATTCTTAT GATGAGGCTA AATAAAAGTC TAATAAAAAT GTTAAATATG 60  
 TGAAA 65

(2) INFORMATION FOR SEQ ID NO: 1460:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 56  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01615
- (ix) FEATURE:
- (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1460:
- GATCAAAATC AAGTTTTTAAG TTTTTTTGAC CAGATAAATT TAATGATTTT GGCAAA 56
- (2) INFORMATION FOR SEQ ID NO: 1461:
- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 58
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
- (B) CLONE: HUMGS01616
- (ix) FEATURE:
- (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1461:
- GATCTTAATT ACTTTCAGAA TATTTTCAAA ATAGATATAT TTNAAAATC CTTACAAA 58
- (2) INFORMATION FOR SEQ ID NO: 1462:
- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 55
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
- (B) CLONE: HUMGS01617
- (ix) FEATURE:
- (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1462:
- GATCGTTCTT CTCTCCGTAT TGGGGAGTGA GAGGGAGAGA ACGCGGTCTG AGAAA 55
- (2) INFORMATION FOR SEQ ID NO: 1463:
- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 55
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
- (B) CLONE: HUMGS01618
- (ix) FEATURE:
- (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1463:
- GATCCCTGAG ACGGGGTAAG TTATAATAAA CAGAAATGTA TTGGCTCAGA AGAAA 55
- (2) INFORMATION FOR SEQ ID NO: 1464:
- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 55
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
- (B) CLONE: HUMGS01619
- (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1464:  
 GATCTGTAT GTATTCAAC ATAATCATGT TTCATAAAGA TTTAGTCTTC TGAAA 55

(2) INFORMATION FOR SEQ ID NO: 1465:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 56  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01620  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1465:  
 GATCCACCT TTGCTCCTGA CAACCCTCAT TTCAATAAAG ACCAGTGAAG ACCAAA 56

(2) INFORMATION FOR SEQ ID NO: 1466:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 54  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01621  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1466:  
 GATCAGAATC CTGCTCCACT AAGAACGGTG TAAAGTAAAT TAGTTATAAG CAAA 54

(2) INFORMATION FOR SEQ ID NO: 1467:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 63  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01622  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1467:  
 GATCTTGAGC CTTAACTGGA CATGAGGGGC ATGAAAATAA AGCTGAACTG CAGCCTCCTG 60  
 AAA 63

(2) INFORMATION FOR SEQ ID NO: 1468:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 54  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01623  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base



(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1468:  
 GATCTTTTCT AAATGTTATT ACTTGTAAT AAAGTCTATT TTTCTCCCGT GAAA 54

(2) INFORMATION FOR SEQ ID NO: 1469:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 54
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01624

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1469:  
 GATCTGTATA TTTTCTTA AGAGAAAATG TAAATAAAGG ATTTCTAGAT GAAA 54

(2) INFORMATION FOR SEQ ID NO: 1470:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 54
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01625

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1470:  
 GATCTGCGCA TATATATATA TGTATAAAAA ATAATAAAT AATGGAAGNT GAAA 54

(2) INFORMATION FOR SEQ ID NO: 1471:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 54
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01626

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1471:  
 GATCCTAAAT NCACGCACCC CGTGGGAGCN CAATAAAGAT TTAAGAATT GAAA 54

(2) INFORMATION FOR SEQ ID NO: 1472:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 53
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01627

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1472:  
 GATCCGCCAT CTGTAATGTC CTTGGCACAA TAAACCAAA TGTCAGTTTC AAA 53

## (2) INFORMATION FOR SEQ ID NO: 1473:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 52
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01628

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1473:

GATCCCTAGT GATTACAGCC CTGAAGAAAA TTAAATCTGA ATTAATTTTA AA

52

## (2) INFORMATION FOR SEQ ID NO: 1474:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 52
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01629

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1474:

GATCCAGTGT GGATTCTTNG AGTAATAACG TTGGTTTAT TTATCATATA AA

52

## (2) INFORMATION FOR SEQ ID NO: 1475:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 52
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01630

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1475:

GATCTTCAAT GTTTATTTTA AAATAAAATA AAATAAGTTC TTGACTTTTA AA

52

## (2) INFORMATION FOR SEQ ID NO: 1476:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 56
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01632

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1476:

GATCTTGAAT GAAAGTCTTC TCAGGCTGTA GGGTGGTTCC TACAACCACA GCCAAA

56

## (2) INFORMATION FOR SEQ ID NO: 1477:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 51  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01633  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1477:  
 GATCTCATCT GAATCCCCAA CACCAATAA AGTTCCTTTT TAACACACAA A 51

(2) INFORMATION FOR SEQ ID NO: 1478:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 55  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01642  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1478:  
 GATCAAAATC CTATTTAGAA AAAATAAAAC TACTTTCTGT TTATCTCTTT AGAAA 55

(2) INFORMATION FOR SEQ ID NO: 1479:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 34  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01671  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1479:  
 GATCCAAAAA CATCCGTGAA CCTCTGTCTG TAAA 34

(2) INFORMATION FOR SEQ ID NO: 1480:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 305  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01673  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1480:  
 GATCAAAATA AAGGATGATA ATAGATATTA TTTTNTCTTA TGACAGAAGC AAATGATGTG 60  
 ATTTATAGAA AAAGTGGGAA ATACAGGTAC CCAAAGAGTA AATCAACATC TGTATACCCC 120  
 CTTCCCAGGG GTAAGCACTG TTACCAATTT AGCATATGTC CTTGCAGAAT TTTTTTTTCT 180  
 ATATATACAT ATATATTTTT AACCAAAATG AATCATTACT CTATGTTGTT TTACTATTTG 240  
 TTTGACATAT CAGTATATCT GAAACACCTT TTCATGTCAA TAAATGTTCT TCTCTAACAT 300

TTAAA

305

## (2) INFORMATION FOR SEQ ID NO: 1481:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 734  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01686

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1481:

```

GATCCAGCCC ATTCTCTACT CTTACTCCTT TCATGGGCCA CCAGAGCCAG TACTCTTGGA 60
TAGCAGCAGC ATTCTAGCTG ACAGAATTTT GCTGATGGAT ACTTTCTTTC AAATTGTCAT 120
TTATCTTGGT GAGACCATAG CCCAGTGGCG TAAAGCTGGC TACCAGGACA TGCCCGAGTA 180
TGAAAACTTC AAGCACCTTC TGCAGGCACC ACTGGATGAT GCTCAAGAAA TTCTGCAAGC 240
ACGCTTCCNG ATGCCACGTT ACATCAACAC GGAGCATGGA GGCAGTCAGG CTCGATTCTT 300
TTTGTCCAAA GTGAACCCAT CTCAGACACA CAATAACCTG TATGCTTGGG GACAGGAAAC 360
TGGAGCAGCC ATCCTAACTG ATGATGTTAG CCTGCAGGTG TTCATGGACC ATTTGAANGA 420
AGCTGGCTGT CTTCCAGTGG CCTGTAAAG CTGAGGATAC AACCAGGGAA ATGCAAACGG 480
TNTCAAGATT TGGTGGTTCA AAATTGTCTA GAAAGGGTTT GATAACCATT CCNGGTTACT 540
TTTTCTTNGG ANGTTTAAAC CAAATAATCA ANGGCNATTT TATTATGGAA CCTCTTTAGG 600
TTATAATTNA TTNGGAATNC CGNCNTTGGC CTTTTCTTGN CCTTTAAATT TTAAGGGAAN 660
AAANNTTGG GCNTNAGGNG GTTNNGGNTT TTTGGNNCNA ACTTTNGGGN TTAATAAANC 720
NGGGGNNTNT TAAA 734

```

## (2) INFORMATION FOR SEQ ID NO: 1482:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 731  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01687

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1482:

```

GATCAACCGG AGCGCTTCCG AGCCATCCTT GCATCGGGCA GCCCACACTG AGGATATCAA 60
TGCTTGACAG CTGACCACGT CCCCAGAGGT GCCTGTNTTC TAGTTGACTT TGCACCTGTN 120
TTCAGGCTGC CAGGGGAGGA GGAGAAGCCA GCAGGCACCA CTTTTCTGCT CCCTTTCTCC 180
AGAGGCAGAA CACATGTTTT CAGAGAAGCT GCTGCTAAGG ACCTTCTAGA CTGCTCACAG 240
GGCCTTAACT TCATGTTGCC TTCTTTTCTA TCCCTTTGGG CCCTGGGAGA AGGAAGCCAT 300
TTGCAGTGCT GGTGTGTCCT GCTCCCTCCC CACATTCCCC ATGCTCAAGG CCCAGCCTTC 360
TGTAGATGCG CAAGTGGGAT GTTGATGGTA GTACAAAAG CAGGGGCCCCA GCCCAGCTGT 420
TGGCTACATG AGTATTTAGN GGGAAGTAAG GTAGCAGGCA GTCCAGCCCT GANNTTGGAG 480
ACACATGGGG TTTTGGAAA TAAGNTTCTT GNGGGATGAA TGTAACAGGN GGGNTTCTT 540
CANGGAGTGG TNCAGCNCAG ACATTTNNAC ATAAGGACCA AACAGCCCAG NNTNCCGNAT 600
TTTGNCNCCC AAGNGCCTTT TTTGGACTTG GANCTTTNTT NGGGGAAAGC CNCTTNAANG 660
TTTAAGNGCC AGNATNGGTG TTTCNGNAAG NATTGCCATC CGATTTAGCC TTTANGGGAN 720
GTTCCANAAG N 731

```

## (2) INFORMATION FOR SEQ ID NO: 1483:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 687
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS01688
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1483:

```

GATCGGTGGC TCCATCCTGG CCTCACTGTC CACCTTCCAG CAGATGTGGA TTAGCAAGCA 60
GGAGTACGAC GAGTCGGGCC CCTCCATCGT CCACCGCAA TGCTTCTAAA CGGACTCAGC 120
AGATGCGTAN ATTNTGCTGC ATGGGTAAAT TGAGAATAGA AATTGCCCC TGGCAAATGC 180
ACACACCTCA TGCTAGCCTC ACGAACTGG AATAAGCCTT CGAAAAGAAA TTGTCCTTGA 240
AGCTTGATATC TGATATCAGC ACTGGATTGT AGAACTTGTT GCTGATTTN ACTTTGTATT 300
GAAGTTAACT GTTCCCCTTG GTATTAACGT GTCAGGGCTG AGTGTCTGG GATTCTCTA 360
GAGGCTGGCA AGAACCAGTT GTTTTGTCTT GCGGGGTCTT GTCAGGGTG GAAAAGTCCA 420
AGCCGTAGGA CCCAGTTTC CTTTCTTAAG CTGATGTCTT TTGGCCAGAA CACCGTGGGC 480
TNGTTAATTG CTTTTAAGTT GGGAAGCGGT TTGCAATTAC GGCNCTAAAA NGTATTCATC 540
CTNAATTNAA GGAAAGGGTT TTTTGTGAC CGAAANNCG ATTCTTGAA GNGNTGNCAC 600
CAAATTTTGG GTTTTCANCC GGTAAGGGGN GACATTAGGN CCCAGNACAA GGNATTNTGA 660
AAGGGAANAN AANGGCNNCC GAAAAAN 687

```

(2) INFORMATION FOR SEQ ID NO: 1484:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 649
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS01689
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1484:

```

GATCAAACTG TATTGCCAG GCCAGCTCCT GAAGAACTGT GAACTATGAA CGTCTCAGCC 60
TAGAAGGATA ATGTGACCTT CAATTTGCAC ACCATCCATT GTCTCTTTCA AACTAAGAGC 120
CTCTCTAAGC TAGATAGGCC AAGGATTATT TTTTAACTT TTATTTTAGG TTCAGGGGTA 180
CATATACAGG TTTGTTACAT AGGTAACCTC ATGTCATGAG GGATTTTGTA TAGATTATTT 240
GGTGACCCAG GTAATAAAC TAGTACCCAT TAGTTGTTTT TNCTGCTCCT CTCCCTCCTC 300
TCACCCTCCA CCCTCAGTTA GTTCCAGTG TGTGTTGTTT CCCCACATCT ATCCATGTGT 360
TCTTATTATT TAAGCTCCCA CTTATAAGTA AGAACATGCA GTGTTTGGTT TTCTGTTCCT 420
GATTAGGTAA TGCTGAGGGA TAATGGCTTC CAATTNCCAT CCATNGTTTC TGCAAAGGAN 480
CATGNCTCA TTNCTTTAAA TATGGGCTNG CATAGNNGTT CCATGGGNGG TGAATGTACC 540
ACATTTTCCT TTNANCCAGG TCTNATCAAT TGGNGGGCCA TTGNGGGTGA TTCCAAGGCT 600
TNGGTAATGG TGAANAGGGC ACAATAANCC AGTACCATGG GGCATGAAA 649

```

(2) INFORMATION FOR SEQ ID NO: 1485:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 549
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS01691
- (ix) FEATURE:

## (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1485:

```

GATCCTCTGA TGGGAGCTGA AAGGATGAGA GGTGGGCATC TAGATTTAGG GAGGCTGTTC 60
AGGCTTTGCA GGTCCCTTAC CTGAACACAT AGAAACCCTG GAGCTGTGAC TGTGTCCATG 120
TGTGTGTGTT TGTCTGTGTG TGTTCGCGGG GATGGGCACC TGCATGAATG TGGTAGAGAA 180
AATGGCTCTG CTCAGAGGGA AGATACGCAT AGCAAGGCAG GGACCAGAGG AATCACAGGC 240
GCCTGGAGAG CAGCCGGGCA ACGNCTCCAG GGACCTGCCG GCTTCCCTCA GTCCTCCAGG 300
GGCCCAGCAC TCTTCCTTTA GGCCCTGTGA GCGTCCCTTG TCAGGATACA TTCTCTCATT 360
TTGCTGAAGC TGATTTGATT GGGTGTCTGT TTCTCGCAGC CAAAAGAGCT CTGAAATGAG 420
GAAAGTGCTT CTGTGCTAAC TCCCCGGGTC TCCTGAATTT CAGTCATTCA TGTACCCGCC 480
TCGAAATTTT TTGCAATATC TGTGTACCCA ATGTCCATTT AATTAATAAA GAAGTTTCT 540
TAAATTAAA

```

549

## (2) INFORMATION FOR SEQ ID NO: 1486:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 543
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01692

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1486:

```

GATCGANGTT TACCTTGTGT CAGGAAAAAA TGTGGGGTAT GCCAAGTATG CCGATAGAAT 60
AAGTNCTAAT GATGCCACTN GCCACTCTAC ATNGAAAGAT TCTGAATGGG GTGAGACTTA 120
AAGTTATGCT GGCAGATTCG CCAAGAGAAG AATCTAACAA ACGGCAAAGA ACTTACTGAT 180
TCTTGAGAAC ACCCGACTAA ATAATGACAT ANTCCTCAGC TGACTGACTG AAAATGTGAC 240
TGGACGCATT CCCTGTGGAC AGTTGACAGC TTTTTTTTTT TCCATATACC TGNTAGTCTG 300
TGTCCAGCAT TGTTTTGTCT GGGAAGCAGG GTTTGCTGNC ATGTATTTTN NATTCATAC 360
ATTANTGCTA AACCGNTTAT AGTAGTTGTN CCTTAGNGCA NTATGTTGTT ACGTGTAGCA 420
GAANTAAAGT TTTCTTTGCT TTANCTAAAT CATGNCTTTA TTTNTGNGAA GGCCAGGACC 480
GGGAAATTTT ATTNGNCAGT CTTTGGNTTT TGCCTAATGN CATTGNCATG NNTTTGGGGT 540
NCN

```

543

## (2) INFORMATION FOR SEQ ID NO: 1487:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 533
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01693

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1487:

```

GATCCAGAGT TGCATACAGA CCAATTCTG CATCAGTGTT ATCTCGACCA GAGGCTAGTA 60
GGACTGGAGA GGGCTCTACG GTATTTAATG GGGCCAGAA TGGTGTGTCT CAGCTAATCC 120
AAAGGGAGTT TCAGACCAGT GCAATCAGCA GAGACATTGA TACTGCTGCC AAATTTATTG 180
GTGCAGGTGC TGCAACAGTA GGAGTGGCTG GTTCTGGTGC TGGTATTGGA ACAGTCTTTG 240
GCAGCCTTAT CATTGGTTAT GCCAGAAACC CTTGCTGAA GCAGCAGCTG TTCTCATATG 300
CTATCCTGGG ATTTGCCTTG TCTGAAGCTA TGGGTCTCTN TTGTTTGATG GTTGCTTTCT 360
TGATTTTNTT TGCCATGTAA CAAATTACTG CTTGACATGT TGGCATNCAT ATTAATTACG 420
GATGNAATCC TGGGNANCTA CCTGTNCCTC CGAAAACCTG TAGGTANTTG GGGGTCANGG 480

```

GGAATTGNNC GGTAATTCCC AAAGCCATTT NATTAAGGN GGAAACCTTT AAA

533

## (2) INFORMATION FOR SEQ ID NO: 1488:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 531
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01694

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1488:

```

GATCCAAAAG ANCTGCTTTC TGAAGCAAGT TTCCAAGANG CTCTTCAGGA AAGCATTCCCT 60
GACATTCAAG CGCACGAGTG GGTGCCGCTG TGGCTACTGC GGTATTCGGT CATTGTGAAA 120
AGTAGAGGAA TTATCAAATC AAAAGGCTAC ATTTTACAAG CTAAAAGAAG GGGTTCTTAA 180
CTGACTTAGG AGCATAACTT ACCTGTAATT TCCTTCAATA TGAGAGAAAA TTGAGATGTG 240
TAAAANTCTA GTTACTGCCT GTAAATGGTG TCATTGAGGC AGATATTCTT TCGTCATATT 300
TGACAGTATG TTGTCTGTCA AGTTTTAAAT ACTTATCTNG CCTCCATATC AATCCATTCT 360
CATGAACCTC TGTATTGCTT TCCTTAAACT ATTGNTTTTC TAATTGANAT TGTCTATANG 420
GANATNCTTG CAATATATTT NNNCNTTANT TTTTATGNCT AATATNAATN CAGGNNAAAT 480
TGTTGTTTGG TATTTTTGGG CNNGGGTTCC GGGGAATGNT TNTNCANTTT N 531

```

## (2) INFORMATION FOR SEQ ID NO: 1489:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 526
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01695

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1489:

```

GATCGGCGTG ACCANCCCTT GCCGGAGGTG GCCCATGTCA AGCACCTGTN TGCCAGCCAG 60
AAGGCACTGA NAGGAGAAGG AGAAGGCCTC CTGGAGCAGC CTCTCCATGG ATGAGAAAGT 120
CGAGTTGTAT CGCATTAAGT TCAAGGAGAG CTTTGCTGAG ATGAACAGGG GCTCGAACGA 180
GTGGAAGACG GTTGTGGGCG GTGCCATGTT CTTTCATCGGT TTCACCGCGC TCGTTATCAT 240
GTGGCAGAAG CACTATGTGT ACGGCCCCCT CCCGCAAAGC TTTGACAAAG AGTGGGTGGC 300
CAAGCAGACC AAGAGGATGC TGGACATGAA GGTGAACCCC ATCCAGGGCT TAGCCTCCAA 360
GTGGGACTAC GAAAAGAACG AGTGGAAGAA GTGAGAGATG CTTGGCCTNC GGCTTCAACT 420
TGCGGCTGGC TCTTTCACCG CCATGCAAAC TCCATGCCTA TTTACTNGGA AACCTGTTAT 480
NCCAAACAGT TGTCNCCTGC TAATAAATTG NCCAGTTTAC CTGAAA 526

```

## (2) INFORMATION FOR SEQ ID NO: 1490:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 525
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01696

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1490:

```

GATCAGCAGA GGNATCAAAC CAACACCTTC TTTGGCTCCC CTCCCGCAGC CACAGAGGCA 60
ACCCACGTTG TCAGCACCAT CCCTGAGTCA TTACAATAGC ACCCTGCAGC TATGCTGGAA 120
AACTGAGCGT GGGACCCCTGC CAGACTGAAG AGCAGGTGAG CAAAATGCTG CTTTCTGCCT 180
TGGTGGCAGG CAGAGAACTG TCTCGTACTA GAATTCAAGG AGAAAAGAAG AAGAAATAAA 240
AGAAGCTGCT CCATTTTTC A TCATCTACCC ATCTATTTGG AAAGCACTGG AATTGAGATG 300
CAAGAGAAACA ATGTTTCTTC AGTGGCAAAT GTAGCCCTGC ATCCTCCAGT GTTACCTGGT 360
GTAGATTTTT TTTTCTGTAC CTTTCTAAAC CTCTCTTCCC TCTGTGATGG TTTTGTGTTT 420
AAACAGTCAT CTNCTTTTAA ATAATATCCA CCTNTCCTTT TTGCCATTTT ACTTATTGGN 480
TCCATAANGT GAATTTTAAAT TTAAGGTAT GCCACACATG CATGN 525

```

## (2) INFORMATION FOR SEQ ID NO: 1491:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 522
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

```

(B) CLONE: HUMGS01697

```

## (ix) FEATURE:

```

(D) OTHER INFORMATION: "N"=unidentified base

```

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1491:

```

GATCAGCTGT TTGTCATAGG GCAGTTGGAA ACGGCCTCCT AGGGAAAAGT TCATAGGGTC 60
TCTTCAGGTT CTTAGTGTC CTTACCTAGA TTTACAGCCT CACTTGAATG TGTCACACT 120
CACAGTCTCT TTAATCTTCA GTTTTATCTT TAATCTCCTC TTTTATCTTG GACTGACATT 180
TAGCGTAGTA AGGTGAAAAG GTCATAGCTG AGATTCCCTGG TTCGGGTGTT ACGCACACGT 240
ACTTAAATGA AAGCATGTGG CATGTTTCATC GTATAACACA ATATGAATAC AGGGCATGCA 300
TTTTGCAGCA GTGAGTCTCT TCAGAAAACC CTTTTCTACA GTTAGGGTTG AGTTACTTCC 360
TATCAAGCCA GTACGTGCTA ACAGGCTCAA TATTCCTGAA TGAAATATCA GNCTAGTNGN 420
CAAGCTCCTG GTCTTGAGAT GTCTTCTCGT TAAGGAGATG GGCCTTTTGG GGGTAAAGGN 480
TAAAATGGAT GAGGTCTGNC ATGNTTCACT ATTCTAGGAC TN 522

```

## (2) INFORMATION FOR SEQ ID NO: 1492:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 509
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

```

(B) CLONE: HUMGS01698

```

## (ix) FEATURE:

```

(D) OTHER INFORMATION: "N"=unidentified base

```

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1492:

```

GATCCCAACA ATATTCCCAA GGCCTCAATG ACAAGTGGTT TGGTTCAGCA GTTCCAACAC 60
ACAGTCCTTC CCTCAGTGAC TCCCTTGGNN CCCTCATCTG CACACTGATT GCCATATTGC 120
CCTCTATTTT CTGTCTTTGG TTAAACCCC AAGGGCCAG AGGCTTTCTC CGATGTCTAA 180
CTCTTTGTGC CTTGAGCTCC TTTATGTTG GGTGGCATGT TCATGAAAAA GCCATACTTC 240
TAGCAATTCT CCCAATGAGC CTTTGTCTG TGGGAAAAGC AGGAGACGCT TCGATTTTTT 300
TGATTCTGAC CACAACAGGA CATTATTCCC TCTTCTCTCT GCTCTTCACT GCACCAGAAC 360
TTCCCATTA AATCTTACTC ATGTTACTAT TCACCATATA TAGTATTTTC TCACTGAAGG 420
ACTTTATTCA GAAAAGGAAA AACCTCTTTT TTAATTGGGA TGGGAACTTT CTANCCTGCT 480
TTGGNCNGGG GGCCTCTGGG AAGNCTTN 509

```

## (2) INFORMATION FOR SEQ ID NO: 1493:



(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 497  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01699

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1493:

```
GATCCTGTCA AAATAGTCCG ATGCCATGAA CATATAGAAT CCTTACAGTA AATGGAGAAT 60
TACTCTTTTT TAGACAAAGA GAAGGGCCTT TTTATCCAAC CCTAAGATTA CTTCACAAAT 120
ATCCTTTTAT CCTGCCACAC CAGCAGGTTG ATAAAGGAGC CATCAAATTT GTACTCAGTG 180
GAGCAAATAT CATGTGTCCA GGCTTAACTT CTCCTGGAGC TAAGCTTTAC CCTGCTGCAG 240
TAGATACCAT TGTGCTATC ATGGCAGAAG GAAAACAGCC TGCTCTATGT GTTGGAGTCA 300
TGAGATGTCT GCAGAGNCAT TGNGAAGTCA CCAAAGGATT GGCATTGAAA ATATCCATTA 360
TTTAAATGAT GGGCTGTGGN TATGAGGCAT ATAAATGNGC TCAGAGGGAT GCACTTGGGT 420
NAATATGGNT ATTGTGCTGT ATCTGTGTTG TGNCTGTGTG TGCANCTGAG GTATGCCTGT 480
GGTNTGCTGA TAAATCN 497
```

(2) INFORMATION FOR SEQ ID NO: 1494:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 472  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01700

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1494:

```
GATCAAAATA TCATGGATTG AACCTCATCA ATTGATAGCA GTGAGTGACT GANGCTTCCA 60
AATCAAGAAA AGCCGGCACC AAGAACTTCC ATTCTAATCT AGAGCTGACC AGTTTGAGCT 120
GATTCTNTCT TTGAAGAGTC CTTCTTGATT GCAGTGCAGT ACTGGCATT CTGAATGGAT 180
GTANGNGGAG TATTTTAGTC TAAAGGCTTT TCAAATTACT TGAATTTTTT TAAAAATTGA 240
GGAGCTTTAT TTCTATTTAC CCTTCCATTT TTGTATATCA AATTTCCATN GTCATTAAAA 300
ACTGTATCTT GAAACTTTGT GAACTGACTT GCTGTATTTG CACTTTGAGC TCTTGAAATA 360
ANTGTGATTT TNGTGTGATT ATCTGGTTTC CNGTTTTAAC CATTACCTGT CACCNTTNAT 420
CCTTAACCTT GAAAGTCCAG AAACCATNNN ATTATTAAGG TNGTCCAATA AA 472
```

(2) INFORMATION FOR SEQ ID NO: 1495:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 496  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01701

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1495:

```
GATCTGTGTG GATGGCAAAC TCCCCAGGCC ATTCTGGGAC CTAAGTTTAA GAAGTGCCGT 60
CCTCGAACTT NCTGACTCTA AGCTCCTGAG CGGGAGTNAG ACTTAGCCCT GAGCCTGCAC 120
TTCCTGTTCA GGTGCAGACA CTGAACAGGG TCTCAAACAC CTTCAGCATG TNTNTTGTGT 180
```

```

GCTCACGTGC CACACAGTGT CTCATGCACA CAACCCAGTG TACACACCAC CTACATGCAC 240
ACAGCGTCCT TNCACACTGT GTATGTGAAC AGCTTGGGCC CTGCAACACA ACCATCTACA 300
CACATCTACA ACCNNNAGGA CACACACATG GGTCCGTGCC ATGTCACCTC CNTAGGGGAN 360
GGNTTCTTTT CCAAGGTGTN GCCAGGCCAG GCAAGCCTTC CAGGCCATGA ATTCCTTACT 420
TAGGTACCTN GGGGTTTGGG GTGGGNGNCC CAGNCAAAAT TCTNNGGTTN CGTNCNCTTT 480
GGTTNNGNCC AGNTTN 496

```

## (2) INFORMATION FOR SEQ ID NO: 1496:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 492
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01702

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"-unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1496:

```

GATCCTGTAC AGCCAGTGTG GGGATGTGAT GAGGGCCCTG GGCCAGAACC CTACCAACGC 60
CGAGGTGCTC AAGGTCCTGG GGAACCCCAA GAGTGATGAG ATGAATGTNA AGGTGCTGGA 120
CTTTGAGCAC TTTCTGCCCA TGCTGCAGAC AGTGGCCAAG AACAAGGACC AGGGCACCTA 180
TGAGGATTAT GTCGAAGGAC TTCGGGTGTT TGACAAGGAA GGAAATGGCA CCGTCATGGG 240
TGCTGAAATC CGGCATGTTC TTGTCACACT GGGTGAGAAG ATGACAGAGG AAGAAGTAGA 300
GATGCTGGTG GCAGGGCATG AGGACAGCAA TGGTTTGTAT CAACTATGAA GAGCTCGTCC 360
GNATGGGTGC TGAATGGCTG ANGGACCTTT CCCAGTNTTC CCCAGATTNC CGTTGCCTTT 420
CCNTNGTGTG AATTTTGGTN ATCTAAGCCT AAAAGTTTTT CCTAAGGCTT TCTTGTCTTC 480
AAGCAACTTT CN 492

```

## (2) INFORMATION FOR SEQ ID NO: 1497:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 490
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01703

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"-unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1497:

```

GATCCAAATA CACAGAATCA AGGGAAGGAG TTGCTTCTTC TAAGAGTGAT GCTTAATCTT 60
TTGGGTCATG GATGAATTGA AGATTTGATT AAAGTTACAA TAAAAAGAGN CCCNTCAA 120
GCACGTACAN NCTGTATCAC GAACGGTGCC TGGCCTACTT TTTCTTTTC TACCCACCCC 180
ACCCCAACCC CCCCTGTCTC AGTGAAAACC TGGTTGTTAC TAAAGTGAAA CTTTAATAAG 240
GATATTGCCT AGGGAAGATT AGTTGTTTTT CTTGTCATTC AAGTTCATTC TGGACCTCTT 300
CCTCTGAGCT GTTAATCAGT GTTGCTAAAC AGACAGGGAA AGACAAGGGA GAGAAAAATG 360
CTGATTCATT CTTCAGAACT TTTAACNNTT TTAACNCTA ATTCTTCTCC TTGAGAAGCT 420
ATTCTTTGAT TGTGAAAGCT TTGTTGTTCA GGGNAATATG GGGTAATAAA AATAGCTAAC 480
CATTTTAA 490

```

## (2) INFORMATION FOR SEQ ID NO: 1498:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 477
(B) TYPE: nucleic acid
(C) STRANDNESS: single

```

- (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01704  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1498:

```
GATCAAACTT CCATATTTGC CTTGGGAATA ATGGACAAAG GGAAATACTC TTAATTCATG 60
AATAAAAACT TTGCAGAAAA TTAGACAGTG TTTAATTTTC GAAAACTTCC CTCTCTAGAC 120
AGTAGATACC ACCTACTGAT GGTTACATAT ACTAGGGAAA TTTTAAAATT AGGAAATGCT 180
GATAGCTCAT ATTATAAATT TCTAAATCCT AGGAAGAAAC GCTTGGAGTG CTTCTGAATA 240
TACAGAAGTT CCATTTAAGG GCAAGTTTCC CCGTAGATGT ATCAAAATAC TACCAACTGT 300
AAATTGAGGT TTAATTCCTA AATGTATTCT ACTTGTTCTA AAACAATCTG TCCNCAAATA 360
TANAACATA AAGTAATAAA TTGTTATTTT CCGCACCAAT GGGGNATCTC TAATGGTGGA 420
AAATGGTAAT CCTATGAAA ATTAATTTTT TTTAANTAAA ANGGTNATTT TAATAAA 477
```

(2) INFORMATION FOR SEQ ID NO: 1499:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 476  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01705  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1499:

```
GATCCCCGAG TCTTCACAAA TNCTCACTGA AGAAAATTCC TGGAACAATT CAGGGTCCTT 60
TCATAACCTC TACTCTGAGG TGTTANTAAA AAACCTTAGT AACTTAAAAA AAATGAGCTG 120
TACACAAATA CTGAACAATA ATGCTNCNTA TGTTAAGTAT GTANGAAAAA TATATACTTT 180
GACATANATA AGAAACGGTG AGTTGATAAT TGGATAGAAT GGTGGATAGA GTGATAGATA 240
TGTTAGTAAAG CAAATATAAC AAAATGATAA TTGTACAATC TAAGTGGTTG GACTATAAAT 300
ATGCACTTCC CACAACNTTT TTATATGNTT AAACAGTTTT ATAATACCAT ATTANGGGAA 360
ACTGTTTGTC TCAAGGAAAT AGAGNTTGTG ATATGTTCTA GTNCAATGNA GGTGTAATCA 420
TGGTNAAATT AAAAGCTTTT ACTTCCTGGG CAATTAAAGG TAATCCTGGT AGGAAA 476
```

(2) INFORMATION FOR SEQ ID NO: 1500:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 488  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01706  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1500:

```
GATCCTGACT GCTGTCATGG CGTGCCCTCT GGAGAAGGCN CTGGATGTGA TGGTGTCCAC 60
CTTCNANAAG TACTCGGGCA AAGAGGGTGA CAAGTTCAAG NTCAACAAGT CAGAACTAAA 120
GGAGCTGCTG ACCCGGGAGC TGCCCAGCTT CTTGGGGAAA AGGACAGATG AAGCTGCTTT 180
CCAGAAGCTG ATGAGCAACT TGGACAGCAA CAGGGACAAC GAGGTGGACT TCCAAGAGTA 240
CTGTGTCTTC CTGTCCTGCA TCGCCATGNG GTNTAACGAA TTCTTTGAAG GCTTCCAGTA 300
TAAGCAGCCC AGGANGGAAA TGAAAACCTC TCTGATGTGG TTTNGGGGGG TCTGCCAGCT 360
GGGGGCCCTT CTGNGTNGNC CANTGGGGNA CTTTTTTTTT TTTTCCCACC NTGGGNTCCT 420
TTNANGANAA NGGGCTTNGA TTGCTTGAGC AAAGTTTCAA ATAAAAGNTT TNTNGGGAAG 480
```

NTTTTAAA

488

## (2) INFORMATION FOR SEQ ID NO: 1501:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 472
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01707

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1501:

```
GATCCAGAAG CTGATGGATG TGGGTCTGAT TGCAATTCGG TGATGACTTG TTCATACCCC 60
CTTCCCTTCG CCCTCATGTG GAAAGAGGAG CTGGGACCGC GGCGAGCAGC ACGGAGCGGA 120
AGGGAGAGCA GGGGAGAGAA GGCCTCATNT CTCTATATTT ATACATAACC CCGGGGAAGA 180
CACAGAGACT CGTACCTGCG CTGTTTGTGC CGCCGCTGCC TCTGGGCCCT CCCAGCACAC 240
GCATGGTCTC TTCACCGCTG CCCTCGAGTT CCATGTCTCT TTCCCCTGCC CCTAGTTGCT 300
GTCTCGGCTG CTCTCCCATG GTTGGTTTTT TTTTNNATTT GGGGCAGTGG GCATGTTAAT 360
GGGGGAGGGG AGGGGGTTCT TCCAGCCTNA GGTCCCAGTT GGTCTNACGT NGTTTAATTC 420
TTGGGTCCCC TTTTCCAAT TAAAACAAGC CANTNGGGGC GTGGGTTNTA AA 472
```

## (2) INFORMATION FOR SEQ ID NO: 1502:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 469
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01708

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1502:

```
GATCGCAAAT TGCTNGAGCT GTTGTGGAAT AAATACTGGG TGAATACGTT GAGTTCTTCT 60
AGCTTGCTTA CTAATGCAGA CTATACCACT GGTCAGGTCT TTGATTTGTC TGAAAAGTTA 120
GAGCAGTCAG AAGCCCAGCT GGGACGAGGG AGTTTCATGT TGGGTTTAGA AACGCATGAC 180
CGAAAATCAG AAGACAACT TGCCAAAGCT ACAAGAGACA GCTGTAAAAC TACCATAGAA 240
GCTATCCATG GATTGATGTC TCAGGTTAAT TAAGGATAAA CTGTTTAATC AAATTAACAT 300
CTCTTCCACA GTCTCTGAGA AGGGCTNTAC CTGAAAGACA GTATGNGGGA AAATATTCAA 360
GGTAACACTT TTAAANCCAG TTNCCNAAAA TCTGATTAGG ANGTTNANGG TTCTCTGAAG 420
TGGTCCTAAA TATTANTATC CCTGTAATAA ANGCTCTTTA AANTGGAAA 469
```

## (2) INFORMATION FOR SEQ ID NO: 1503:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 466
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01709

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1503:

```
GATCTGCAGT GGCTGTTTGA CCAGACCACA AAGTTCACAT CTCCTGAGCT TAGTGTCCGT 60
```

```

GGCTGTCCAC CTCCCAGCCA TACTTGACTG TCCCCAAACT CTCCCTGCAG CCACATGTTT 120
CCCATGACCT GTGGGCTCTG CAGATGGACC TCTCTCCGCT AGAGATGCCC TTCTCCCAA 180
TGGCTTCCCT CCTGGAAGGC CCAGCCTGAG TCCTCGTCTC CTTTCCAGTG CTTCTGCCAG 240
AAGCATCCCC ATGATGTTGT GACCGCACAG CACTTTGTGT CTTGCTTTGA GCACTTGCCA 300
CTCTGGCTGG TGCTGCTGCC ACTGATTGTG TACTGTCTTG CTGCCCTTTC TAGACTGTGA 360
GCTCCTCGTG GGCAGGGACC GCCTGTGTTT TCTGTATTTC CCACGGAGCC TAAGNACAGT 420
GCCTTGCACT TGATAAGGTG CTTAATAAAT GTCTGNTCAA CTGAAA 466

```

(2) INFORMATION FOR SEQ ID NO: 1504:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 465
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01710

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1504:

```

GATCACTGTG TTCAGTGTG TTGGAATGGA TTCAGACTGG CTAATGGGGG AAAGGGGAAA 60
CCAGAAGGGC AAGGTGCCAA TTACCTACTT AGAACTGCTC AATTAAGTAG GTGGACTATG 120
GAAAGGTTGC CCATCATGAC TTTGTATTTA TATACAATTA ACTCTAAATA AAGCAGGTTA 180
AGTATCTTCC ATGTTAATGT GTTAAGAGAC TGAAAATACC AGCCATCAGA AACTGGCCTT 240
TCTGCCAATA AAGTTGCATG GTAAATATTT CATTACAGAA TTTATGTTAG AGCTTTCATG 300
CCAAGAATGT TTTCTTACAA AATTCTCTTT TTATTGAGGT TTCACTAATA AGCAGCTTCT 360
ACTTTTGAGC CTCAACTTAA AGCAGANCTG TTTTCTACTG GGATTTTTC TTAACAGCAA 420
GCCTTTTCCT TTTATGTAAA ATTAAATCTA TTGTGGAATT TGAAA 465

```

(2) INFORMATION FOR SEQ ID NO: 1505:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 462
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01711

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1505:

```

GATCTTGTCT TTAAAACATG ATAGTCCTTT CAGTATAATG TCTTAGATTA AAGACGTTGC 60
CTTTAATATC TGTTGGGAAG GAAATGTCCA GACTTTTCAA ATCTCTTATT ATATGTTTCC 120
TTTTNTTGTT TACATAGGGA ACAATGTTTA TAGTCGTGTG TACAGTGGGG GTCTACANCN 180
NGAAGTGTAT ATTTTCAAAC AATTTTTTAA NGATTTAACA ATTTTGTAA ATCATTTTCA 240
GGCTTCTGCA GCTGTAGATT CTCACTGTGA ATCCCTTGCT TGCTCATGCA TAAGTGATT 300
TGCAATACCA NATATACAGG TTTAGTATTT TTGCCTGTGA GTNGATTGTT TCACATGNGT 360
AACGNTTGG GTGAGATGTT ANATGGTTGG NCGAGGTACT GTGGANGTGA ATGTGGGNAG 420
TAATTTTAAAN NCATATGNAA TTGGTCACCA GGGCCNAATT TN 462

```

(2) INFORMATION FOR SEQ ID NO: 1506:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 459
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01713

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1506:

```

GATCCCAAGC AGGCTCACAA ATTTAAATGA GGGCTTTGTG TGCAGAAAGA GGAATAAGTA 60
CAGATTATTT TCCTACCACT AGATTTTGGG GGAGAGTCAC CATGGAATGT TGACAATTAC 120
TTAAAATATT TTAAGCTCCC TTGCTGAATT CCTGTCCTGT CCCTGAGGAA TCAGATGGTC 180
ATACAGCCAT AGGCACCCAC CCGAAATTTT CCTAGGAGTT GGAGTAATGC TAGAATTGAA 240
GACCTTCTGA GTAAAGGGCT TCTCTGCCTT CTCAGAGGCA GGAGAATTG CACTGGTTGT 300
GTTAAATGTA TAAAAGCTA TATGTTTACC AGTTTACTCA TTTCCAATGT GTAGATGAAT 360
AAAATGTAGT GTACAAATTA TTTGAAAATC CCAGAAGGGA AGGTACTTTT CAAANACAGT 420
ATTTTTTTTA ACAAATAAAC TTACGNTTTT TACAGCAA 459

```

## (2) INFORMATION FOR SEQ ID NO: 1507:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 454  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01714

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1507:

```

GATCTCCTGT CCATCAGCCA GGACAGTCAG CTCTCTCCTT TNAGGGCCAA TCCCCAGCCC 60
TTTTNTNGAG CCAGGCCTCT CTCACCTCTC TACTCACTT AAAGCCCGCC TGACAGAAAC 120
CACGGCCACA TTTGGTTCTA AGAAACCCTC TGTCATTGCG TCCACATTC TGATGAGCAA 180
CCGCTTCCCT ATTTATTNAT TTATTTGTTT GTTTGTTTTA TTCATTGGTC TAATTTATTC 240
AAAGGGGGCA AGAAGTAGCA GTGTCTGTAA AAGAGCCTAG TTTTAAATAG CTATGGAATC 300
AATTCAATTT GGACTGGTGT GCTCTCTTTA AATCAAGTCC TTTANTTAAC ACTGAAAATA 360
TATAAGCTCA GATTATTTTA ANTGGGNATA TTTATAANTG NGCAAATATC ATACTGTTCA 420
NTGGGTTCTG GAATAAACTT CACTGGAGGG NAAA 454

```

## (2) INFORMATION FOR SEQ ID NO: 1508:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 453  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01715

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1508:

```

GATCGAGCAG TGTGACTACC CCCCCTCCC CGGGGAGCAC TACTCCGAGA AGTTACGAGA 60
ACTGGTCAGC ATGTGCATCT GCCCTGACCC CCACCAGAGA CCTGACATCG GATACGTGCA 120
CCAGGTGGCC AAGCAGATGC ACATNTGGAT GTCCAGCACC TGAGCGTGGA TGCACCGTGC 180
CTTATCAAAG CCAGCACCAC TTTGCCTTAC TTGAGTCGTC TTCTCTTCGA GTGGCCACCT 240
GGTAGCCTAG AACAGCTAAG ACCACAGGGT TCAGCAGGTT CCCCAAAAGG CTGCCCAGNC 300
TTACAGCAGA TGCTGAAGGA GAGCAGCTGA GGGAGGNGGN GCTGGCCACA TGTCAGTNT 360
GGGTCAGNTT CCAAAGTCCT TTNNTTANCA CTGTTGTGGA CAATNTNANN TNGGGTCAAN 420
TNAAGGGCAG GTNNGGTTNAA GNGGNGCCNN GGN 453

```

## (2) INFORMATION FOR SEQ ID NO: 1509:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 450
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01718

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1509:

```
GATCCTGGGG AAGGTGGGGA ACATGCTTGC AGTATCTNTC CCTGTNTGTN TGCTCACATA 60
AGCATTCCGT CCATCTGAGC TCATCGTGCT ACTGGTATGT GTATGTNCAG TTACACAGTT 120
TTNTGTATCA TAGATTCTAG TGTGTTTATA CAAGNGACA TCTGTGGTTT CCCCAACCGT 180
TCCAAAAGGC TATTTCAAAG GAACCAGCCA ACGTATGAGA AATGANTGTA ACACTGTGGA 240
CATTGACTTC CCGCATAAGG CAGGGTGACC CCCTGAACTC CAGATGTNTG CACAGTATCT 300
NATGTGTTGT TTTCCGTTGT GACGAATGTG NATTGGAACA TTTGGGGGAG CACCCAGAGG 360
GATTTNTNAG TGGGAAGCAT TACACTTTGC TAAATCANGT ATTTNNTTCC TGNTTAAACC 420
AACCTANTTA ANTNTTTTANC CTTGGCAAA 450
```

## (2) INFORMATION FOR SEQ ID NO: 1510:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 449
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01719

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1510:

```
GATCCATGGA TGTAGTGGGG AGTGGAAAAT GGCACAATAT CAAGTGTGAG ANAGNGATA 60
NACTTCGACT CTNCTGCCTT CAACTGAGAN CAGTTGACCG CAAGCTGAAA CTGGTGTGTG 120
GNAGTCACAG CTTTCATCAAG GTCATCAAGG CCAAGAAAAA CAAGGAAGGA CCAATGAATG 180
TTAATTGAAA TATGAAAGCT GAAATGCAAC AAACAACCTC CGCTTAAAC AATTAAGTTG 240
TTAATAACTG TGATTTTGTA AATTTAGTA ATTCATTTAA ATGATGTTTC AGTAGATATA 300
TTCTAGCATA TTANGAGCTT TTATAACTGA GTTATAGATT AGTTTGCTTT CTGGAATAAA 360
ATTTTCTTCT TATACTCTTC CTTTTTTTTT GATATNACAT TTTGCTTTTA TGNCATTAC 420
GGGGGCAAAA ANTAAAATAT CTTTTTTTTN 449
```

## (2) INFORMATION FOR SEQ ID NO: 1511:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 464
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01720

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1511:

```
GATCAGAATC ATGGTCTCCC GCAGTGAAGT GGACATGTTG AAAATNAGGT CTGAATTCAA 60
GAGAAAGTAC GGCAAGTCCC TGTACTATTA TATCCAGCAA GACACTAAGG GCGACTACCA 120
GAAAGCGCTG CTGTACCTGT GTGGTGGAGA TGACTGAAGC CCGACACGGC CTGAGCGTCC 180
```

```

AGAAATGGTG CTCACCATGC TTCCAGCTAA CAGGTCTAGA AAACCAGCTT GCGAATAACA 240
GTCCCCGTGG CCATCCCTGT NAGGGTGACG TTAGCATTAC CCCCACCTC ATTTTAGTTG 300
CCTAAGCATT NCCTGGCCTT CCTGTCTAGT CTCTCCTGTA AGCCAAAGAA ATGANCATTN 360
CAAGGGAGTT TGGAAGTNAA GTCTATGANT GTGAAACAAC TTTTNNCCTC CTGTNGTNCT 420
GTGTTAATAA ANCAGGTGNA TTAAACTGGN TTTNGTACTT TAAA 464

```

(2) INFORMATION FOR SEQ ID NO: 1512:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 445
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01721

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1512:

```

GATCTTGCCA TGGAAGATAC TAGCCAGCC TAGCAGAAAA GTGCAATATG TATAGCATAC 60
TTTGACATTT TAAACATGAT AGTCCATAAC CATTTTGAAA TGCTGGGCAA ACTACATGAA 120
GTTATTTATA ATTAATTCAC AGCTAATCAG GCATTTTGAA AGCTTAATTG GATTCAAAAA 180
CCATAATGTT GGAATTTGGT AAAATTTTAA TGTTGATTTT TACTGTGAAA AGGTTTTTAT 240
AAGATATACA CACCCTAGTT TAATGTTGTG TCTTGGTGTG GATTTACAGA TTTACTACAG 300
GTATTCTGAA CCAGGAACAC ANTCAGGTTT TCAGGCCAGT TTGAATACTG GCTGGCCTTA 360
AATTCTAATT ATNNGGAGTA GGGACATCAT ACCTAAATNT TTATGTCAGT GGGGNCTGTA 420
CTTGCTGTG GGANCTTAGC AAATN 445

```

(2) INFORMATION FOR SEQ ID NO: 1513:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 435
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01722

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1513:

```

GATCAATCGG ATTGAGAAGA ACATCCTGAG CTCAGCGGAC TACGTGGAAC GTGGGCAGGA 60
GCACGTCAAG ACGGCCCTGG AGAACCAGAA GAAGGCGAGG AAGAAGAAAG TCTTGATTGC 120
CATCTGTGTG TCCATCACCG TCGTCCTCCT AGCAGTCATC ATTGGCGTCA CAGTGGTTGG 180
ATAATGTGCG ACATTGTTGG CACTAGGAGC ACCAGGAACC CAGGGCCTGG CCTTCTCTCC 240
CAGCAGCCTG GGGGCAGGGC AGAGCCTCCA GTCGGACCCC TTCCTCACAC TGGCCCCTAT 300
GCAGANGGTN AGACAGTTCT TCTGGGGTTG GNAGCTGCTC ATTCATGATG GCCTNCTCCT 360
TNAGGCCTCA ATGCCTGGGG GGANGGCTGC ACTGTCCTAT TTGGNCGGGA CANACGGTTT 420
TNTAAAAAAT TAAA 435

```

(2) INFORMATION FOR SEQ ID NO: 1514:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 434
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01724



## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1514:

```

GATCTAACCT AGACTAAAAT TGGGAACCTA TTTGCAATTT TTGACCCNGN CCACTAACTA 60
GTGATTCTNC TCCAAAATTG AGAAAGACAG CACCCATTGA AGCAGATATG TGTGTGAAAG 120
TATATTTTTC AATTCAGAT TTTTAATTTT AAGGCTCCAG GAAAGAAAGG AGAGTAGAAC 180
ATTTTTCCTC ATTTTATCAA ATCCTCTCTT GCCCTCCCTC AATTCCCCTG TAACATTCCT 240
GAAGCTGTTC CCACTCCCAG ATGGTTTTAT CAATAGCCTA GAGGTAAAGA ACTGTCTTTT 300
TCTCTGATTC TTTAATAAAT TATCTTTATA GGAATATGCA CAAGTTTTTTT TTACTCTCAG 360
TGTTAAAAGT ATTTATTAAT NGGGAAGTCA ACTTAATGTT TTGAAATAAA NTATATGNCT 420
CTGGTTAATG CAAA

```

434

## (2) INFORMATION FOR SEQ ID NO: 1515:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 423  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01726

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1515:

```

GATCCAGTGA TTCANTCACT TAAATNAAGT CTTTTGGTCA GAAATNACCT TTTTGACACA 60
AGCCTACTGA ATGCTGTGTA TATATTTATA TATAAATATA TCTATTTGAG TGAAACCTTG 120
TGAAGTCTTT AATTAGAGTT TNCTTGATA GTGGCAGAGA TGTCTATTTT TGCATTCAAA 180
AGTGTAATGA TGTACTTATT CATGCTAAAC TTTTATAAAA AGTTTAGTTG TAAACTTAAC 240
CCTTTTATAC AAAATAAATC ANGTGTGTTT ATTGAATGGT GATTGCCTGC TTTATTTTTCAG 300
AGGACCAGTG CTTTGATTTT GATTATGCTA TGTNATAACT GACCCNAAAT AAATNCAAGT 360
NCAAATTTAT GTNGNCTGTA TAAGGTTTGT AATAANCCAT GNCTGAGGNC AAAAAAGGGN 420
AAA

```

423

## (2) INFORMATION FOR SEQ ID NO: 1516:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 419  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01727

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1516:

```

GATCTGTAAT CTCCACTGCT TGGATGTCTG CCCTCTACCC CAGAGGAATT TACAGAACT 60
TGCCCTGTGC CTGTGTCCCC CATGCTAGGG GCGGAGGGGT CTTTTCCTTC TTCTTTCCTA 120
CCTACCCCTT TTCTCTTGGC CAGGGGCCTC GTATCCTACC TTTCTTGTG CCCTGGGCTG 180
GCTGCACAGA GGATTGCCCC TTCTCTTTTC AGAGCTGGCC CTCGATGCCA AATTAGCATT 240
TAGTATTTTG CACAAAGTCT AAGGGACCAT GGCTGCCTGC CTTGGGGAGG AACCATAGCT 300
CCNCTGGGC CGCTTCTGGC CTCTTGAGC CATGGGCCAA AGGCAAGGGG ATGGGCAGAG 360
GTCTGTGTTT GGTCTGGCCC AGTTCNCAT CATTAACTC AGCCTGACTG CTGCCTAAA 419

```

## (2) INFORMATION FOR SEQ ID NO: 1517:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 419

- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS01728
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1517:

```
GATCCTCAGT AGANCAGTCC AGAAGCCTGA NAGACAGTGG CCCCTTGATA ATCTGGGTCT 60
CACGGGNCCA GCTAGGGGTC CAGGTTTCAN TCAGTAAATA AGAGTGGTCC ACGTCTTAAA 120
GACACCTCTC CTNNACAAAG ACTTGTGATG CTCTGGGGNT TCTNTGGCCA AGCCCCACCC 180
TTTCCTGGTC ATGGTACCCG TACAGCGTTG ATGGCCACAG CTCGAAGGGG GGCTTTCGTG 240
TCCCCCTGTG CGGTCAGTGT TTTCAGTACC ACCTCTCTCC CGTGCCCACT TGGCTATTTA 300
CTTATTTATT TATTGTGTGC CAGTNATGGT GGGTGGGGGC TGGGCCTTCC CCGCCACCTN 360
CANCCCTGTT GTGACCTGTC CTTCCGTACT TAATAAAGTG CGCGTGNGGA GTTGTATAA 419
```

(2) INFORMATION FOR SEQ ID NO: 1518:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 418
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS01729
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1518:

```
GATCTNAGCC CTCCGGTTCC TGGGCAGAGA GAAAGGCTAC AGGTTTCATTT NCCTGACGAC 60
AGCAGTCACA AACAGCGCTC GCNTTATGGA GGCCATNAGT GAGGTGAAAG CCTGATGTTT 120
TTCCCGGCCA NTNTTGACAT CTTCCCTGAA CACATTCCTC AGTGAGATGC AGGCATCTGG 180
CACCCAGCTG CTATAACCAA GTGTCCACCA ACTACCTGCT AAGAGCCGGG AGCATGGAAC 240
GTGTTGGGAT TTAGAGAACA TTATCTGAGA AAAGAGTTCA CTTCTGCTC CCAGGATATT 300
TCTCTTTTCT GTTTATGAAG TACAACCCAT GCTGCTAAGA TGCGAGCAGG AAGAGGCATC 360
CTTTGCTAAA TCCTGTTTGA ATGTCATTGT AAATAAAGCC TCTGCTCTCA GATGTAAA 418
```

(2) INFORMATION FOR SEQ ID NO: 1519:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 404
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS01730
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1519:

```
GATCCAATTT ACAGAAATCA GAGTTAGCTA CAGCTAGGAC TCGTTTGGTT GGGGTTTTTTT 60
AGTTTGTCTT TCTAAAGTCA TGTGGACCTT AATTTAATTA CAAAAGTCTA CCCTGGTGGT 120
CATAAAATAG GCAGGCCTAT GAAGAAAGGC CTTTTACTCT TCCATCTCGT CCCAGCCCCG 180
AGTTGACCCA CGTTGCTGCT CCTCACACCA TGGTGATGCA GGTCTCGTAG TGTGGGCACA 240
GGCCTGGCTA CCTCATCTTT TTAGTGCCCT TCTCCTCTTC CACAGGATGG GGTCCCACAG 300
CTGCAGCAGC TGGCCCGGTA GTTGAGCATG TGTGGTTATC CTGTAGAGCT TTTCCCAAGA 360
AGGGTGTTTG AACTTAGAGT CTTAATAAAA TCTTACCAA TAAA 404
```

## (2) INFORMATION FOR SEQ ID NO: 1520:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 402
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01731

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1520:

```

GATCTACAGA TACGTGATAT TNTGGTATAA CTAGAATCTT GATTTCTTTC ATAAAGTTCT 60
GCCATGTTCT ATTTCTTTCC TTAATGTTTT TTTCTTCCCT ACTGTTTAT CCTCCCTTG 120
CTTTGGAAGG ATATTNCTGC ATATCGAGCT AAAGGAAAGC CTGATGCAGC AAAAAAGGA 180
GTTGTCAAGG CTGAAAAAAG CAAGAAAAAG AAGGAAGAGG AGGAAGATGA GGAAGATGAA 240
GAGGATGAGG AGGAGGAGGA AGATGAAGAA GATGAAGATG AAGAAGAAGA TGATGATGAT 300
GAATAAGTTG GTTCTAGCGC AGTTCTTTTT NNCTTGCTA TAAAGCATT AACCCTCTG 360
TACACAACCT ACTCCTTTTA NNGAAAAAAA TTGAAATNTA AA 402

```

## (2) INFORMATION FOR SEQ ID NO: 1521:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 407
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01732

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1521:

```

GATCTCAGCT GAACAAATTA GATGTTTCAG TTGCTCTTGG GTCAACTGGC TTACAGATTT 60
ACATGTGCAC ACACACACAA ATTTCTTATC ACATTTTCGC CTTCTTCACT TGACCTAACT 120
GATTATGCGA AATACCCAAG ATTCATGCTA CTGTACCACA GATTTGTTTT CACAGCAATA 180
AATCTTCAGT TCTTTGTTTA TGATTCCACT TAACAAAAGG CCTGCAGAAG TGATTTATTA 240
TTTGGGTATT TGGAGATAAT ACATTTGATG GTTTTTTGGG AAACCTTTT CACTCCATAC 300
TCAGATATGC TTCATTGTCA AATGCATATT TAGGNTAGGT TAATNGAATT GTAATGTTTA 360
ACCTGCTGCT TTTTTTTTAA ATAAAAATTT GACTGAAAAT GGTTAAA 407

```

## (2) INFORMATION FOR SEQ ID NO: 1522:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 397
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01733

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1522:

```

GATCTAGTAG CCACGCTAAA AAACAAGTAA AATTAATTTT AATATATTTA ACTCAATACA 60
TTGGAGATAT TATTCAGAA CGATATTTTT CATTCTTATG AAACCTAAGTC TGTCTGGTTT 120
GCATATCTCA GTTGAGACAC TAAAGTTTTA CTGATAATAC TTAATCCATN NATTAGATTT 180
CATAAAATCT AAATTTGCAA AGTAAATTTA CATACCCATG TNGGTCTAAA TGTGCTTAAA 240
AGTTTCCAA TAACTGAAAT GAGTATCAGT TTAAATTTA AAAATTTGTT ACTTGTTTAC 300

```

TCCATATTTTC AGGTATTAGT GGCTACCATA TTGGTCAGAG CAGATTCATA GGGATGATTT 360  
 CCCAGGTTTG AAGTGTGTGT ATATTGCTGG TATTATN 397

(2) INFORMATION FOR SEQ ID NO: 1523:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 395
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01734

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1523:

GATCTGTACG AAATGTGAAA TTTTATAGGA CATCTCCATG CTGTCACTTG TNATTTGCCC 60  
 TCTNATGTAT TTNGGTCATA TTGCCAACTG GAAAGTCAAA ATTTCTTAAC AACTTTAAGT 120  
 AAGTCCTTTN AAGACTNAGT GCTGTTTTNA ATCCAGTTTA GAAAGTAACT TAATTTTAAT 180  
 ACCGCTACTA AAAATNCGAA AATTTCTCCT TTAATCACAT TCAATATGGT TAAANGAACA 240  
 AACTAATTG ACATTGCGTG GGCTTTTCCT CCCTTTGTTT AAANANGTCA TTTTGTGAG 300  
 CAAGNGGTTG TATAGTATTA TCTACTNCT TGAGGCTGTT AAATTTNCNA TTCCAGNGGT 360  
 TTTGTAAATG TATCCCGGGG CCNTGNTGCA TTGGN 395

(2) INFORMATION FOR SEQ ID NO: 1524:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 391
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01735

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1524:

GATCTCAATG ACCTGGCGAA GACTGGAAAA TACAACCTCC ATCACCAGCA GAGTTGCTAG 60  
 GCTGCTGCTG TATGGGTACA GAGAAGGGTT TGACAAAATT GACCTGACTG TGGAAGAACT 120  
 TCCAGCAGTT TACACAGGAC TGTTTTATAA ACTCTATCAT AAGGAAGTGC CAGAGAATTA 180  
 TAAAACATG AAAGGAATTG ATTAAATTCA CATTATATG TTTAGAAACA TGTAGACTAA 240  
 CGAATGACAT AAGAAATAGT GGACATTTTG GATTGATTAA ACATCTGACT GTGATTTTCT 300  
 AATGTATATG ATTTCCATGA AGAAATTTTG TTTCTAAACA TGCACATTTT AAAAGCCTCT 360  
 TTTCGAATAA AGCAAATGCG TGAAAANGAA A 391

(2) INFORMATION FOR SEQ ID NO: 1525:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 388
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01736

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1525:

GATCCGGCGC CACAAGACCA CCATCTTCAC GGACGCCAAG GAGTCCAGCA CGGTGTTTCA 60  
 ACTGAAGCGC ATCGTCGAGG GCATCCTCAA GCGGCCTCCT GACGAGCAGC GGCTGTACAA 120

```

GGATGACCAA CTCTTGGATG ATGGCAAGAC ACTGGGCGAG TNTGGCTTCA CCAGTCAAAC 180
AGCACGGCCA CAGGCCAGC CACAGTGGGG CTGGCCTTCC GGGCAGATGA CACCTTTGAG 240
GCCCTGTGCA TCGAGCCGTT TTCCAGCCCG CCAGAGCTGC CCGATGTGAT GAAGCNCCAG 300
GACTCGGGAA GCAGTGCCAA TGAACAAGCC GTGCAGTGAG ACCCCAAGA GGCCATTTC 360
CCCCAATAAA AGAGATTGG GAGTCAA 388

```

## (2) INFORMATION FOR SEQ ID NO: 1526:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 388
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01737

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1526:

```

GATCTTATTT CTTCTACTCA ATTGTATATT TATACCCATT AATCAACTTC TGTTCTTGCT 60
CTCTCCGTGC TACCCTTCTG GCCTTTGGTA ATCGCCAATC AATCTACTCT CTATCTTCAT 120
GAGACCAGCG TATTTTAGCT CCCACATATG AATGAAAACA TATAATATTT GTCTTTCTGT 180
GCTTGACTTA TTTTACTTAA CATAATGACC TCCAATTCCA TCCATCTTGT GGCACTGACA 240
GTATTTTCATT CATTTTGTG TGAATTATAT TTCGTTGTGA ATATACATTA CATTTTCTTT 300
ATCCATTCAT CACTGATGTG CACTTAGGTT GATTCCATAT TTGGGCTATT GTGAATAGTG 360
TGTTAATAAA CATGAGAGTG CAGTTAAA 388

```

## (2) INFORMATION FOR SEQ ID NO: 1527:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 385
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01738

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1527:

```

GATCTTCCTG GTCAGCGCTC TCTCTAGCAT ACTCTTCCTC TATTTGGCTC ACAAACAGGC 60
ACCAGAGAAG CAAATGGCAC CTTGAACTTA AGCCTACTAC AGACTGTTAG AGGTGATACT 120
ATGACCATGA GTAGCATCAG CCAGAACATG AGAGGGAGAA CTAAGTCAAG ACAATACTCA 180
GCAGAGAGCA TCCCGTGTGG ATATGAGGCT GGTGTAGAGG CGGAGAGGAG CCAAGAAACT 240
AAAGGTGAAA AATACACTGG AACTCTGGGG CAAGAGATGT CTATGGTAGC TGAGCCAAAC 300
ACGTAGGATT TCCGTTTAA GGTTCACATG GAAAAGGTTA TAGCTTTGCC TTGAGATTGG 360
CCTCATTAAA ATCAGNGACT GTAAA 385

```

## (2) INFORMATION FOR SEQ ID NO: 1528:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 377
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01739

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1528:

```

GATCCGTA CT CAGAACGTCC AGGAGAGACG CATGGCCCCGA AGTCAAAGTG CTGGAATTTT 60
CCAAAACAGC CTGTTCTCTC CTCTCTCCTC CCCAGAGCAC CCCCTGCCAT CAGGGGGGTT 120
GAAATCCCTC TCCCCCAGGA GCCCTGCTGC TTTGCTTGGT GGTAGGGCAG GAGAGCAAAC 180
AAACAGTCAT GGTCTAAAAC CCACATAGCA CTTTGCTCTT AGTTACATGT AAAATTTTAT 240
ATTTCTAAAA CAGGTGGGCA ATCATTTTGA ATACTGTTCT GTGACCCTGA CTGCTAGTTC 300
TGAGGACACT GGTGGCTGTG CTATNGTGTG GCCATGCTCC NTTGTCCCCG TNCCTGTTGG 360
CTGCTTCTGT TTAGGTN 377

```

## (2) INFORMATION FOR SEQ ID NO: 1529:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 167  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01740

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1529:

```

GATCCAAGGC CTGTGGTAAA CGGGAGANCT TGTNTTTTTC AAGTGGAAAA AAACCCAAGA 60
GTTTGTNCAG ACATCCTGTC TTCCAGAGA AGGTGGACAC TCTTGGNCTC ATTGTAAAGT 120
GCCTGCTGNA TCAATAAAGC TCTTGGCTTA TTAGTCTATA AAACAAA 167

```

## (2) INFORMATION FOR SEQ ID NO: 1530:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 372  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01741

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1530:

```

GATCCACACG TTCCGGGACT ACCTGCACTA CCACATCAAG TGCTCTAAGG CCTATATTCA 60
CACACGTATG CGGGCGAAAA CGTCTGANTT CCTCAAGGTG CTGAACCGCG CACGACCAGA 120
TGCCGAGAAA AAAGAAATGA AAACAATCAC GGGGAAGACG TTTTCATCCC GCTAATCTTG 180
GGAATAAGAG GAGGAAGCGG CTGGCAACTG AAGGCTGGAA CACTTGCTAC TGGATAATCG 240
TAGCTTTTAA TGTTGCGCCT CTTCAAGTTC TTAAGGGATT CTCCGTTTTG GTTCCATTTT 300
GTACACGTTT GGAAAATAAT CTGCAGAAAC GAGCTGTGCT TGCAAAGACT TTCATAGTTC 360
CCAAGANTTA AA 372

```

## (2) INFORMATION FOR SEQ ID NO: 1531:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 372  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01742

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1531:

```

GATCCACTGT TGGGGCCTCG ACGAGTTCCT GTCCTGGGAA AGGAGTACAC CGAGAAGACC 60
CCCATTCTG AGCATGCTGT TTTCAATGTG GACCTCATGA GCAAGAAAAT TCATCTGACT 120
GAGAATGGGA TAAGGGTGGG TATTGGCGAT ACAATAATCT ATCTGGTTCA TTAAACTCAT 180
GCACATTGGA GATTTATCCT GGTTTCTTAG GAATACTACT ACTCTGATTG TGTCTACTGA 240
TTGGCTATCA GAACCTTAGG CTGGACCTAA ATAGATTGAT TTCATTCTA ACCATCCAAT 300
TCTGCATGTA TTCATAATTC TATCAAGTCA TCTTTGATTC CTGGACCTAA TAAATTTTTT 360
TTCCCTTTCA AA 372

```

## (2) INFORMATION FOR SEQ ID NO: 1532:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 368
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01745

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1532:

```

GATCCAGTC ACAATTATCA CCGGGTATTT AGGTGCTGGG AAGACAACAC TTCTGAACTA 60
TATTTTGACA GAGCAACATA GTAAAAGAGT AGCGGTCATT TTAAATGAAT CTGGGGAAGG 120
AAGTCCGCTG GAGAAATCCT TAGCTGTCAG CCAAGGTGGA GAGCTCTATG AAGAGTGGCT 180
GGAACCTAGA AACGGTTGCC TCTNCTGTTT AGTGAAGTGA GGAATGTGTT TACTGTGTAC 240
ATGGTTTACT AGAAATGTTT ATTGATTATA TTTCCAGCTT TAATTTTCTT GAGTAATTTA 300
ACTGAATTTA CACAGTTTGC TTCATTGTAT TTTCAAACAA ATAGAAAATA AACTTATTAG 360
GAAGCAAA 368

```

## (2) INFORMATION FOR SEQ ID NO: 1533:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 364
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01746

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1533:

```

GATCGTCCCC GTATGATGAT TGTNAGAAGA CAGGACTAAG TAGCAGAGAA TAGCTAAGAG 60
ATAAATTGGG CTGGGGAAAC TTGTCAGAAA GCACTGAACA ATTAAGAAAT TTTCCAAGAA 120
AATGTGCAGT ATTCTCTGCT ACTTCTGAAT CTGTTTTGTC TTCCTAATCT ATCACAATTG 180
CCACCCATCG GGTTTTGGGT GTGTGTTTTT ATAGCGTGGT TACTTTCTAT AATGCTGTAC 240
CCAGATTCTA AGAACCTGGA GAAGGATTAG CAGTTCTTAG TAAGTTTACT GTGTATAGGA 300
ACGGTTTGTA TTTCAATACA GCTATTCATC TTTTCTACAT TAAAAATATT TTTCTCTAAA 360
GAAA 364

```

## (2) INFORMATION FOR SEQ ID NO: 1534:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 362
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01747

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1534:

GATCTGTGCC ATAAATTTT AGTGTAATA GACTTCTTCA ATACATCTTC CAATAAGGGG 60  
 TGCTTCTTTG TGACAGTATT TTTATTTCTG ACATTCATTT TATTTGGGTA CATAGTGTGG 120  
 TTGTTGATAC CTTGCAATAG TATTGCTTCT GAAAGTAATA AAAAAATTTTA GGAGAATTTG 180  
 AGAAGTTTAC AGAATTACTT ATTCATTGTT TTCTTAGTAA GTCAGTTTAA TGTTTATTTT 240  
 TCTCATTATT TCATCACTGC AATAAAGAAT AAGGGTGTTT GAGCTCACCT CCATGCAAAG 300  
 ACTTCAGTTT TAAACATTA TTTGCCTAAA ATTAGCATTG TGATGCTTTC TGAAAGAAAT 360  
 AN 362

## (2) INFORMATION FOR SEQ ID NO: 1535:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 361  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01748

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1535:

GATCCACCTC TCCTGTGCTA AGATTAAGAN GACCAACGTC CCCGANTTCT TTNATTGCCA 60  
 GAAATGCAAG GAACTGAGGC CAGAGGCCNN GCGGTTAGGG GGGCCTCCCA AATCTGGAGA 120  
 GCCCTGATGG CACCAACTTT AGCCTGGAAC TTCCAAATNA CAACATGATT TGGGAACTGA 180  
 GCCTCAGGGT CCTCAGCCTA TCCCCTGGAG CTTGGATACT GTCTGCACTT CAAGGCAGGA 240  
 ATTCTCAAGG GAGACTTGTT TGAAAATNAG TGTCTCACTT TCCCACCCTA TCCTTCCTCC 300  
 CCACTCTGTG GACTTGAAAT TGAATCCATT ACGGTTGGGG ATGGGAGGCT GTCTGTGTCC 360  
 N 361

## (2) INFORMATION FOR SEQ ID NO: 1536:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 360  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01749

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1536:

GATCGATTCT CTCTATGAAG GAATCGACTT CTATACNTCC ATTACCNGTG CCCGATTNNA 60  
 AGAACTGAAT GCTGACCTGT TCCGTGGCAC CCTGGACCCA GTAGAGAAAG CCCTTCGAGA 120  
 TGCCAAACTA GACAAGTCAC AGATTAATGA TATTNTCTTG GTTGGTGGTT CTA CTCTCGTAT 180  
 CCCCAAGATT CAGANGCTTC TCCANGACTT CTTCAATGGA AAAGAACTGA ATANGAGCAT 240  
 CAACCCTGAT GAAGCTGTTG CTTATGGTGC AGCTGTCCAG GCAGCCATCT TNNNTGGAGA 300  
 CAAGTNTNNG AATGTTCAAG ATTNCTGGC TCTTAGGNTG TCACTACTCT TTTCCCTTAN 360

## (2) INFORMATION FOR SEQ ID NO: 1537:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 358  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear



## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01750

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1537:

GATCCAGTG AATCCTGGGT CCAGGAGTAC GTGTATGACC TGGAAGTGAN CTGAGCTGCT 60  
 CAGAGACAGG AAGTCTTCAG GGGAGGTCAC CTGAGCCCGG ATGCTTCTCC ATGAGACACA 120  
 TCTCCTCCAT ACTCAGGACT CCTCTCCGCA GTTCTGTGCC CTTCTCTTAA TTTAATCTTT 180  
 TTTATGTGCC GTGTTATTGT ATTAGGTGTC ATTTCCATTA TTTATATTAG TTTAGCCAAA 240  
 GGATAAGTGT CCCCTATGGG GATGGTCCAC TGTCCTGTT TCTCTGCTGT TGCAAATACA 300  
 TGGATAACAC ATTTGATTCT GTGTGTTTTC ATAATAAAAC TTTAAAATAA AATGCAAA 358

## (2) INFORMATION FOR SEQ ID NO: 1538:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 354  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01751

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1538:

GATCCCTCCT CTAGGGGCCT GGGGACTTTN ACTGATGCTC TTCCTGATTC TAGAGCAAAG 60  
 GTGTGGGAAG GGGAAATGGA GGAATGCCCT CCTGTCTGTN TCGTTCTCTG TGCCACAGCT 120  
 ACAGATGCAG AAGGTTTCTC TGGATAGCAC ACCTCTGANT GTAAATCATG ATAAATGGA 180  
 TATTTGGAAA CTTACTCCTA AGCTGTGATT TAGGGTGTAT TTCTACTTCT GGACTGCCTC 240  
 AATATCAAGG GCTGAGACTT TTGAATTTTG AATATTCGTT GGGTTTCATG TTAAGANGCC 300  
 TGTGGTCTAG GAGTGCTATT CAGTGTTTCT TTTCTGATA AACACTTTGA ATAN 354

## (2) INFORMATION FOR SEQ ID NO: 1539:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 352  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01752

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1539:

GATCTCAGTA TGGACAGTGT AACAACAAAA CCAAATGGC TGGACAGACT TCTTGTGTTT 60  
 TGTAATATA AACTAGGACA GTTCTGTAGG TTTGTTTCA GTGCTAGTGG AGTATTCCT 120  
 TAATGTAAAA CTTCACTTAA CAGAGAGATT CTTTGTTTAG CAAGCTTGGN GTGATGATAN 180  
 AGNGGTAAGA AATAATATA ATGTTGAAGA AAGCATCACA ACAGAACTAT AGGAGTCTAA 240  
 ATTTAATAAA TCTTTAAAAA AAACCAAGTGT CTAGAATATA TACCATGTTT TATTATTTAA 300  
 AATCATTGTC TTAAATTTTT GTTCAAAAAA TAAAAATTG AATACAATCA AA 352

## (2) INFORMATION FOR SEQ ID NO: 1540:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 351  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01753

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1540:

```

GATCAGACAA GCCCAAAGTG AGAGACACTC TACAAAATAA CTGGCCAGTA CGTTTTNCAA 60
GTNCCAAGGC CGTGAACAAT AAGGAAAGAC TGAGGAACAG TCATGGACTG GAAGAGAGTA 120
AAGAAATATG ATAATAACT GCATTGTGAG ATACCGATTT AGATGTTGGA TTAGAAAAAG 180
GACCAGAAAT AAGATTTTCAT CAATGTCAAT TATTTGGTTT TGATAATTGT ACTGTGGTTA 240
TGTAAGATGT TAACATTAGT AAGAGCTGGG TGAAGGGTAC ATGGAAACTA TTATTTTTCG 300
CACCTTTGA AAGTCTAACT TTTTTCAAAA TAAAAGTTT TAAAAATAA A 351

```

## (2) INFORMATION FOR SEQ ID NO: 1541:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 357  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01754

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1541:

```

GATCCCAGAT GCAGTGACTG GTTACTACCT GAACCGTGCT GGCTTTGAGG CCTCAGACCC 60
ACGCATAATT GGGCTCATCT CCTTAGCTGC CCAGAAATTC ATCTCAGATA TTGCCAATGA 120
TGCCCTACAG CACTGCAAAA TGAAGGGCAC GGCCTCCGGC AGCTCCCGGA GCAAGAGCAA 180
GGACCGCAAG TACACTCTAA CCATGGAGGA CTTGACCCCT GCCCTCAGCG AGTATGGCAT 240
CAATGTGAAG AAGCCGCACT ACTTNACCTG AGCCACCCAA CCTAAATGGT ACTTATCTGT 300
NCCCATGTNC NTACACCAGC CTGTTTTNAT AATAAACTTT ATTGGTGGTA GGGNAAA 357

```

## (2) INFORMATION FOR SEQ ID NO: 1542:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 412  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01755

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1542:

```

GATCAGGGCA GTAGGCATAA TTCAGCAACA AACAATCTTC CTTTGGGAGA AACCTNTTCA 60
TTCCAATCTT CTAATTACAG TGGTTCCTAT CTCAGGGATA CTGGACTTTN TGACGCAGAT 120
GAACAATTAA GGGGAAAAGC TTCCCTTTTC CCTCTGTGGC AGTTACGATT TTNACTTCAG 180
TCCTGAGAAA AACTTCAGGT TTTGAAAATC AGATGATGTC TTCTCCTTTT CCAANCACCA 240
CACGTTGAAA GCNTTTATAA ATCCAAGTCT GAAACTCTGC GCTCTAGTAC TGCTGTTAAG 300
NTACACAAC TGTCTTCTNN GTTCATATAA TCTNNGGGTA CNCACNCACA CACNCNTGTA 360
TGGGGGGGGG GGNNTGGCGN TTNCCACCGC GCGTTCNTT TTTGNNGGGT CN 412

```

## (2) INFORMATION FOR SEQ ID NO: 1543:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 343  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01756

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1543:

```
GATCCCAAAA TGCTGCGGGG CAATGACAGC TCAGTTCCCA GAAATAAAAA TCCATTCCAA 60
GAGGCCATTG TTTTGTGGT GGGAGGAGGC AACTACATTG AATATCAGAA TCTTGTGAC 120
TACATAAAGG GGAAACAAGG CAAACACATT TTATATGGCT GCAGTGAGCT TTTTAATGCT 180
ACACAGTTCA TAAACAGTT GTCACAACCT GGACAAAAGT AACACAGAAG AACCTTACTA 240
TGATAATCTA CTTGGAATGT GGATAAATGT AAAANGNAGA AAAGTTAGAA NGNCANTAT 300
GTTTCCTTCT CTGTAACAGT GTCCTAACAG TGAAAATTCA GGN 343
```

(2) INFORMATION FOR SEQ ID NO: 1544:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 340

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01758

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1544:

```
GATCGANCTT NCTATGGACT CAAGCAGGTG NNGAAGGCCA ATNAAGCCAT GGCAATTGAC 60
ACATTGCTCA TCAGCGATGA GCTCTTCAGG CATCAGGATG TAGCCACACG GAGCCGGTAT 120
GTNAGGCTGG TGGACAGTGT GAAAGAGAAT NCAGGCACCG TTAGGATATN CTCTAGTCTT 180
CACGTTTCTG GGAACAGNT CAGCCAGTTG ACTGGGGTAG CTGCCATTCT CCGCTTCCCT 240
GTTCCCGAAC TTTCTGACCA AGAGGGTGAT TCCAGTTCTG AAGAGGATTA NTGATTGAAA 300
CTTAAATTT GNGACAATCT TTGTGTTTTT CTAAACTGTN 340
```

(2) INFORMATION FOR SEQ ID NO: 1545:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 339

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01759

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1545:

```
GATCTGCTTT CATTAAGTGG AATTCTGTAG GAGATACTGG TGACCTAAGC TAAGTTGCAC 60
TCAGCATACT CAGTGTCAG CTAATGAGGT TCTATTATAA AGGTTCTACT TTTAATCTGA 120
GGGAAAACAT GTTCAGGGCT TCTAGAACAC TAAAAAATTN GGNTTAAACC AGTGTNCAGT 180
CTGGTGCCAA ACTTCGAATG GAATACAAAT NNACATAATC TGANCTTTGT NCACAGGTTA 240
TCCTAATAGA GTAATTCTCC ACTTTGCTCT ATTGAACTGT CTTAAGGGAT TTGTTTAAAC 300
AGCTAAGTTA CTTGATTAAA ATAATGATAA AATTGTAAA 339
```

(2) INFORMATION FOR SEQ ID NO: 1546:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 362

(B) TYPE: nucleic acid

(C) STRANDNESS: single

- (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01760  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1546:

```
GATCTGGTAG AAGGTACCAG CTTCTTTTCC AGCTGGAGAG GCCCCAACAC TGGATGGTTC 60
TG TAGGGAGC CTAGGGAGCC TGGTCATCAA CTTGCAATAC CTCACAGAGC CAGTTCACAT 120
CCC ACTCTGA GCTCCCACGA GAAACACTGC TTCTCCAGGC CCGGGGTTGT TGGGGAGAGA 180
GGCAGAGGCA GCTGGAGCGC CGTTCTCTCC TGCTGGGACA CCGCTTGGGC TTTGGTATTG 240
ACTGAGTGGC TGACAGTTAT CTTCCAACCC CAACTGGCTT GGGGGCAGGA CAAGGGCTTA 300
GGCTTGATGG TGGNCAGGCT TGNCTGCTCC CCACCTGNGA TGCCCCTGCT CTGGGACCTC 360
TN 362
```

(2) INFORMATION FOR SEQ ID NO: 1547:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 335  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01761

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1547:

```
GATCCTTTCA GAAAAGAAAC ACTGGGTCCC ATAGCTAAAT TCTCAACCGC CANGCACCTT 60
CAGAAGAATC CAGCCTAATA CTGGAATTTG TGCTATTATC TTCCTCTCCA GCCCCCAAC 120
TCCATCCCTC ACCACAGTTG TCTAGGAAAT GACATGAATT CAATATCTAA TGTCAACCAA 180
TGGGGAGAGC CACAACCTCA GGAGAGGTTT CTGAGCTGAG TCCCTTAATT TCTGGATGAA 240
GAAGACCAAC AAGTTTTGTC CAATGTATTT GTTTCTCAGA CCTTGCCTAG GCACTAAAAA 300
TAAATACTA GGTCAATGGA GGCTAATGTG GGAAA 335
```

(2) INFORMATION FOR SEQ ID NO: 1548:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 330  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01763

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1548:

```
GATCATTAAG GAAGGCGATG TAGATGTTTC AGATTCTGAT GATGAAGATG ATAATCTTCC 60
TGCAAATNTT GACACATATC ACAGAGCCTT GCAAATAATA GCAAGATATG TACCATCATG 120
AGTATACTGN TCCTTATTTT GAATGTTTAA TTCTCAAGAA AATTGTAATC AATTAGTAAA 180
AATTATAAAA TGTTAATAGT ATTAAAGCTT GAGTCTTACA TTGCATTTTT TTTTNGNA 240
NCCACTTGGG GAACCATTC ATNCTCCAAA ANGGGGCATT CCCATTTCCT NTTNATCCCC 300
TNNAATGGTT TTNCAAAGTN NGTNTGCNGN 330
```

(2) INFORMATION FOR SEQ ID NO: 1549:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 330  
 (B) TYPE: nucleic acid

(C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01764  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1549:  
 GATCATGGTG GATGAGGAAG CCTCAACGTA GATTCCTGAA CTCAAGGTAC CAGCAAGANT 60  
 GCNTTCTCCC AGTGTGCTCT CCCCAACATC CTAGGCACAG CTTTCATAAC CCAGTTTCTT 120  
 AGGTGTAAGA AACTGTTTTN ATCTCATTTA TTAAGTCTCA GAACTTAACA GAAAAGGAAG 180  
 CCTTTTAAAT ATTCTTTTTA ATNTTATTTT AGATTAACAG TTTTGNACTT TACATTTTTT 240  
 TATACAACCA NCCAGTTTCT TTNCTAGCCA ATCATCTCTG ANGAGTTGCT GTTTCCTTACT 300  
 GACAATAAAA NNTGTNCTCT TGGTTCGAAA 330

(2) INFORMATION FOR SEQ ID NO: 1550:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 329  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01765  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1550:  
 GATCAACATC TTTCTTGCC TCTGTCCCT TCTCTCATCT CTTAGCTCCC CTCCAACCTG 60  
 GGGGGCAGTG GTGTGGAGAA GCCACAGGCC TGAGATTTCA TCTGCTCTCC TTCCTGGAGC 120  
 CCAGAGGAGG GCAGCAGAAG GGGGTGGTGT CTCCAACCCC CCAGCACTGA GGAAGAACGG 180  
 GGCTCTTCTC ATTTACCCCC TCCCTTTCTC CCCTGCCCCC AGGACTGGGC CACTTNTGGG 240  
 TGGGGCAGTG GGTCCCAGAT TGGCTCACAC TGAGAATGTA AGAACTACAA ACAAATTTTC 300  
 TATTAAATTA AAATTTNTGT GTCTCCAAA 329

(2) INFORMATION FOR SEQ ID NO: 1551:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 334  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01766  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1551:  
 GATCCCAACT GCTCCCTNCC CTCGCCGGTG ACTCCTGCAC CTGCGCCGGC TCCTGCAAAT 60  
 GCAAAGAGTG CAAATNCACC TCCTGCAAGA AAAGCTGCTG CTCCTGCTGC CCTGTGGGCT 120  
 GTGCCAAGTG TGCCAGGGC TGCATCTGCA AAGGGGCGTC GGACAAGTGC AGCTGCTGCG 180  
 CCTGATGCTG GGACAGCCCC GCTCCCAGAT GTAAAGAACG CGACTTCCAC AAACCTGGAT 240  
 TTTTATGTA CAACNTGAC CGTGACCGTT TGCTATATTC CTTTTTCTAT GAAATAATGT 300  
 GAATGNTAAT AAAACAGCTT TNACTTGAAA CAAA 334

(2) INFORMATION FOR SEQ ID NO: 1552:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 328  
 (B) TYPE: nucleic acid

- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS01767
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1552:

```

GATCTGTTTG GACTATGTTT TCTTTTCTTC TCCCACTTGC TCAGCAGCTT GGGCTTCCAT 60
TCTAGTTCTT TTACCAAGAT TTTTGTGTGA CCATGTTGAC TTCATTTGGA TTGCCCTCTT 120
TCAATTTTCT TGTGAAAACA CCCTTAACTT TCTCTTTACC CTTAGCTGAA ATGTTTACAT 180
AGCTTCTGGT GATATCTTTN CATGATTTTA TATCTCTTAA AATGGTGATG GATGTGACAC 240
CTCATAAAAG TGAGCTTTGA ACTGTAGATA ACTCTTAAAG AAAATGTCAT TTTAGACAAT 300
TAAAATATTT GTGCTCAACT GCTTGAAA 328

```

(2) INFORMATION FOR SEQ ID NO: 1553:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 327
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS01768
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1553:

```

GATCGAAATG TTAACACCGG GAGCTCTNCA GGACACTCAC CCAGCGACGC TCGTGGGGGA 60
AACATACTAA ACGGACAGAC TCCAAGANCT GCCACCGCTG GGCCTGCACT GCGGCCCCCC 120
ACGTGAACTC GGTGTAAACG GGCCNGGGAA GAAAAGCAGA GAGAGAATTG CAGAGAATCA 180
GACTCCTTTT CCAGGGCCTC AGCTCCCTCC AGTGGTGGCC GCCCTGTACT CCCTGACGAT 240
TCCACTGTAA CTACCAATCT TCTACTTGGT TAAGACAGTT TTGTATCATT TTGCTAAAAA 300
TTATTGGCTT AAATCTGTGT AAAGAAA 327

```

(2) INFORMATION FOR SEQ ID NO: 1554:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 326
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS01769
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1554:

```

GATCAGCAGA CCACGTATTT AAAATTCTGA ATCTTCTGGG ACAGGGTTGT AACTCAGCCT 60
TCCAAAGGGA AGAGTGACAG GGGACGGGGC CATGATATGG GGAAATGGTG TAAACTAATG 120
TATTTNTTTA TTGGCTGTTA TTCTGTATAA CACTCATATC TTTGCCAAAG TTCAATTTTA 180
TATTTAGGCA ACTGATGGTC CTTTGTGATT TAGGATTTTN GTTGTTGTGA CTTTATACCT 240
CATGATATAA GGAATGGGCT CATGTGTCTT CCGTCTTTTG GAAGGAGGTT GACATATTTT 300
AAATAAATGC TTTTAAATAC AGTAAA 326

```

(2) INFORMATION FOR SEQ ID NO: 1555:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 387
  - (B) TYPE: nucleic acid

(C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01770  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1555:

```

GATCAAAAAG AACAGAACCC TCTCCAGCCT GCTGACCCGA ACCCAACCAC ACAATGGTTT 60
GTCTCAATCT GACCCAGCGG CTGGACCCTC CGTAAATTGT TGACGCTCTT CCCCCTTCCC 120
GAGGTCCCGC AGGAGCCTAG CGCCTGGCTG TGTGTGCGGC CGCTCCTCCA GGCCTGGCCG 180
TGCCCGCTCA GGACCTGCTC CACTGTTTAA CACTAAACCA AGGTCATGAG CATTCTGTGCT 240
AAGATAACAG ACTCCAGCTC CTGGTCCACC CGGCATGTCA GTCAGCACTC TGGCCTTCAT 300
CACGAGAGCT CCGCAGCCGT GGCTAGGATT CCACTTCCTG TGTCATGACC TCAGGAAATA 360
AACGTCCTTG ACTTTATAAA AGCCAAA 387

```

(2) INFORMATION FOR SEQ ID NO: 1556:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 325  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01771  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1556:

```

GATCACAGAT GGATNTTGTT ATAAGCATCA ATGTGACACT TGCAGGNCAC TACAACGTGG 60
NACATTGTTT GTTCTTCCA TATTTGGAAG ATAAATTTAT GTGTAGACTT TTTTGTAAGA 120
TACGGTTAAT AACTAAAATT TATTGAAATG GTCTTGCAAT GACTCGTATT CAGATGCTTA 180
AAGAAAGCAT TGCTGCTACA AATATTTCTA TTTTAAGAAA GGGTTTTTAT GGACCAATGC 240
CCCAGTTGTC AGTCAGAGCC GTTGGTGTTT TTCATTGTTT AAAATGTCAC CTGTAAATG 300
GGCATTATTT ATGTTTTTTT TTTTN 325

```

(2) INFORMATION FOR SEQ ID NO: 1557:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 322  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01772  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1557:

```

GATCTGTAAT TCATAGTCAC ATCAAGGTCA TCAAGACCAG GAAAAACAAG AAAGACATAC 60
TCAATCCTGA TTCAAGTATG GAAACTTCAC CAGACTTTTC CTTCTAAAAT CTGGATGTCA 120
TTGACGATAA TGTTTATGGN GATAAGGTCT AAGTGCCTAA NAAAATGTAC ATATACCTGG 180
TTGAAATACA AACTATACA TACACACCAC CATATATNCT AGCTGTTAAT CCTATGGAAT 240
GGGGTATTGG GAGTNCTTTT TTAATTTNCC ATAGTTTTTT TTAATAAAAT GGCATATTTN 300
GCATCTACAA CTTCTATAAT TN 322

```

(2) INFORMATION FOR SEQ ID NO: 1558:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 319

- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS01773
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1558:

```

GATCTTTCTT TAATAGTGAA CCCCTGGGCC ACTGAAGAGT AACATGGCTC CACTGGACAC 60
AAAAGAGGGA TGGAATCAAC AGGCAGGGGG CCTTTTATAA GCCTTAGGAA AAGAAAATGA 120
AACTATTTCA TCTTTGGACT TTTCAATACT ATTGGAGTGA TTTTTTTTTT TCTAAACAGG 180
GAAAATAATG TTACAAAAGC ATCTTTTTTG TNATTTGTTT GCATCCCTCC CCCACACCCT 240
GGTGTTTTAA ANTGANGAAA AAAANCCATC ACCTTTTGTA CAAAANCTCT TAATGNTTAA 300
CAAACAACA AANCAGAAA
319

```

(2) INFORMATION FOR SEQ ID NO: 1559:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 316
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS01774
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1559:

```

GATCTGGCTG CGCTATGACT CCGGGAGCGN CACCCACAAC ATGTACCGGG AATACCGGGA 60
CCTGACCACC GCAGCGCTGT CACCCAGTGC TACCGAGACA TGGGTGCCCC GCACGCGCCC 120
GAGCCCACTC CATTCAATC TNACAGCAGT GTTCTTGCAA TATGAGGAGA CAGTTACAGC 180
CACATTATGG CTCTCATTGA ACAGTACGCA GCACCCCTGC CCCCAGCCGT NTTTTTGGGG 240
CTTGCGCGAA AATCTACAAG CGGGAANGTG ACCTNGGATT CAAGGGCGGG GAGAGANGCT 300
TNAATAAATA ATCGTN
316

```

(2) INFORMATION FOR SEQ ID NO: 1560:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 390
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS01775
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1560:

```

GATCTAGAGG GTCGGACCCA CATATTTAAG ATTACGNTC GTTCAATGAG TGTTGAAAGA 60
GATATCAGAT TTGAACTGTT AGCAGACTG TGNCCAAATA GCACTGGTGC TGAGATTAGA 120
AGCGTCTGCA CAGAGGCTGG TATGTTTGCC ATCAGAGCAC GGCGAAAAAT TGCTACCGAG 180
AAGGATTTCT TGGAAGCTGT AAATAAGGTC ATTAAGTCTT ATGCCAAATT CAGTGCTACT 240
CCTCGTTACA TGACATACAA CTGAACCCTG ANGGCTTTCA AGTGAAAACT TTAAATTGGA 300
ATCCTAACCN TATATAGACT TGTTAATAAC CAATTCATAA ACAAATAAAT GGCTTCAAAA 360
TTGAAAAAAA NNNGANNNNN NNNNAGNNNN
390

```

(2) INFORMATION FOR SEQ ID NO: 1561:

- (i) SEQUENCE CHARACTERISTICS:



(A) LENGTH: 311  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01776  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1561:  
 GATCTGCTTA GAGTGGATTT TCACTCAAGT CCTTAGTAAG TGGATTTTGG GGAAAAAAGC 60  
 ACCTGGGCTT CTGGTTCTTT TTGATAATAT ATAAAATTAT TCATTATGAG GTTGCAGTTG 120  
 TTTGCAAAGG AGAGGCACTC AAATTTGAAA GGTATTTTTA ATGTGATAAT TTGGAAGACT 180  
 TACTCAGATG TTGGTCATTG ACCACTCTGT GCATATATTT CTGCAGAGCT CTGTGAAGGC 240  
 AATGAGTGTC ACTTCCCTCT GCTCTAATAA AGCAATAAAT AATAGCTAAA GGGCTGACTT 300  
 TCACTTCGAA A 311

(2) INFORMATION FOR SEQ ID NO: 1562:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 310  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01777  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1562:  
 GATCTTTCTA CAACATTTAT CCTGGTTGTT AAGCCCTCCT TACAACATTC TTCTCTCTTT 60  
 GTTTTTATAG CTCCATCTCT CCTGCTTCTT TAACTTGATA ATGCATACTT GATTTTCCTA 120  
 TTTGTNATTT CATAAACCAA TTAATACACA GATAAAATGA CTGTATATCA AACCATGTTT 180  
 GTATAGAAAA ANTGGATTNN GGATGCCTCT CATATGTAAT TAGTTCTATT AAACATATTA 240  
 ATNGTATTGT TTAATTNGTC AGGTTTTTGA CAGANTTTTG TTTACAGGTA ATAAANNNTN 300  
 TATCTCCAAA 310

(2) INFORMATION FOR SEQ ID NO: 1563:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 307  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01778  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1563:  
 GATCGAAAAA AAAATCCAGA ACCTTGGGAA ACTGTGGACC CTACTGTACC TCAAAAGCTT 60  
 ATAACAATCA ACCAACAATG GAAACCCATT GAAGAGTTGC AAAATGTCCA AAGGGTGACC 120  
 AAATGACGAG CCCTCGCCTC TTTCTTCTGA AGAGTACTCT ATAAATCTAG TGGAAACATT 180  
 TCTGCACAAA CTAGATTCTG GACACCAGTG TCGGAAATG CTTCTGCTAC ATTTTATAGG 240  
 TTTGTCTACA TTTTNGGGC TCTGGATAAG GAATTAAAGG AGTGCAGCAA TAACTGCACT 300  
 GTCTAAA 307

(2) INFORMATION FOR SEQ ID NO: 1564:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 305
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS01779
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1564:

```

GATCCTGTGG TTGGCCACTG GCCATAGCTG CTGCCCAGCT CTACCCCTCC CAGGGACCTA 60
CCCCCTCCAG GGACCGACCC CTGGCCCAAG CTCCCCTTGC TGGCGGGCGC TGCGTGGGCC 120
CTGCACTTGC TGAGGTTCCC CATCATGGGC AAGGAAGGGA ATTCCACAG CCCTCCAGTG 180
NACTGAGGGT ACTGGCCTAG CCATGTGGAA TTCCCTACNC TGACTCCTTC CCCAAACCCA 240
GGGAAAANAG CTCTCAATTT TTNATTTTTA ATTTTGTGTT GAAATAAAGT CCTTAGTTAG 300
CNAAA
305

```

(2) INFORMATION FOR SEQ ID NO: 1565:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 304
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS01780
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1565:

```

GATCACAGCT AGAGAATTGA GAATTAATA TACTACTAGC CATTTTAGGG CACCAAAACT 60
TGGGATTAAA CACTTCCTAC TTCCCACTCC CAACTCCTGA AATGAAGTCT TGCTATCTGT 120
GACTAGTTTT ATTTTGTGTC TTTAATAGT CCGAGCAGTC TTACCTTGTT TACACATGTA 180
TTGACACCAT TTGCTTCAGG CCATGGAGCA CTGTTTCTCC CNTTTTACTA TTTATAGGAT 240
TCCGTTTTTT CACAAGACTT TTAATAAAAA GAAATTGTAG AAATAAACAC ATTTAAATTT 300
GAAA
304

```

(2) INFORMATION FOR SEQ ID NO: 1566:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 304
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS01781
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1566:

```

GATCTGCTTT CTCGTAATTA TAGATTGGTT TGCATTTTCT AGAAATTTTT AAATAAATGG 60
AAACATATAG TGAGTACTCT TCTTGGGGTG GAAGGAAGTG TGTGTGGCTT TTTTCACTCA 120
AGCATAATTA ATTTGATACT CATCCAGATT ATGCATGTAT CAATAGTTTA TTCCTTTTTT 180
ATTGCAGAGT AGTAGTTANN NNCCTGGGTA TNCACAATTT GTTACCTGTT CATCTATTGA 240
TGGNCAATTG GGGTATTTCC AGTTTTAGCT ATTACAAATA AACCTGCTGT GACATCATGN 300
CAAA
304

```

(2) INFORMATION FOR SEQ ID NO: 1567:

- (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 304  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01782  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1567:  
 GATCTGCTAT AGCTGTCCAT CAGAGAGAAT ACACGTGGCT ATAACATCTA TAACAAAACG 60  
 ACGATTCCCTC TACAAGAGGC TGTTTCTNAC TGCTAACGTT GGTGTTTCTG GCGTGGGAAG 120  
 AAATGCACAG GCGTGCATGG CATGCACGTN CAGACAGCTG CATTGTAAGA NTNCTGTCAT 180  
 GCAGTCTGAA AAGGGAAGAA ACAGGATGGC TTTCTGTAGC CACACCTGTG AGGCGTGATG 240  
 ATTGTNGTAT TATTAGATTA CTGATTTTCC TTTTCTGAAA ATACATTTGN NTTTTAATCA 300  
 CAAA 304

(2) INFORMATION FOR SEQ ID NO: 1568:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 304  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01783  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1568:  
 GATCTGCTGT TGCTGAGAGT NTGAGCGTGG ACTTGATGCA GTNATGACAA ATCATTGCTT 60  
 AGAATTAATG TTTTCAAATG TGCAACTCTA GTTTTTAAAA CAAAATTTGG TTCTTTACAT 120  
 TCATTATTTC GTTTTTGTTT CCCTTTAGTA TTTAATGGTC TTTGGAGAAA AAATAATAAA 180  
 ACAGAGTGTT ATATATATAT TTTTGGTGC AAGATAAGAT TTTCTGTTTT TTGAAATAAG 240  
 TCTGTAGCAT AAAAGGTTAA ACTATTTTAA GGACANANTA AAAATAGGAG TGTATTTAAA 300  
 CAAA 304

(2) INFORMATION FOR SEQ ID NO: 1569:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 303  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01784  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1569:  
 GATCCAGGGA TGAGGATAGA GTGGCCTGAG AGCAGTGCTT GGATTGAGCC TCCTGCTGGG 60  
 TCCTTCTGCT GGATACAGGC ACCAAGAGGC GGGGGTGGAG CAGGGAGCTG CGCCTTCCTG 120  
 GGGTGCCNGG TGGTGTGTAG AGAAAAGCTG CTTGTTTACT CCTTAAGTCA ATGTATTGGT 180  
 GACTGTTGAT TTGTTGAACA ATTCAGGAAT CAAGGGCTGT GGAGAACTC CCTCATGTTG 240  
 TTGGCAACAG GTGAATGAAC CTAGAGCGGT GACATGAAAA TAAAGCTCAC TGTTACTCGC 300  
 AAA 303

(2) INFORMATION FOR SEQ ID NO: 1570:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 302
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS01785
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1570:

```
GATCCCCCGA CGACGTGCTC GAGTTCCTGA AGGTGTATGA GANGCACTCT GCCCAGTGAG 60
CACCTGCCCT GCCTGCATCC GGAGAATTGC CTCTACCTGG ACCTTTTGTC TCACACAGCA 120
GTACCCTGAC CTGCTGTGCA CCTTACATTC CTAGAGAGCA GAAATAAAAA GCATGACTAT 180
TTCCACCATC AAATGCTGTA GAATGCTTGG CACTCCCTAA CCAAATGCTG TCTCCATAAT 240
GCCACTGGTG TTAAGATATA TTTTGAGTGG ATGGAGGAGA AATAAACTTA TTCCTCCTTA 300
AA 302
```

- (2) INFORMATION FOR SEQ ID NO: 1571:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 307
    - (B) TYPE: nucleic acid
    - (C) STRANDNESS: single
    - (D) TOPOLOGY: linear
  - (vii) IMMEDIATE SOURCE:
    - (B) CLONE: HUMGS01786
  - (ix) FEATURE:
    - (D) OTHER INFORMATION: "N"=unidentified base
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1571:

```
GATCCATTTT GCTTACACTG TTGCATCACA AGGGACTCAC CCAGGGACCA TGACCTGCTG 60
GTGTGTGTGT ATATTTACAA AAACAAAACA AACAAACCAC CCATTGGGAT ATAAGGTAGC 120
AATCACAAAC TAAAGACTGC GGCTTGTTGA GGTGCAATAC CCTGACTCCC AAAGTTAGTT 180
ACAGTGGGTT TTATTGTTTT TGTGACTGAA GGATTTATTC AGACTGCTGT ACTCTTCATT 240
TGATGTAACA AAATGCTATT AATCTAAATA TTTGTAAATA AAGTACCTGT ATCTAGATTA 300
AATTAAA 307
```

- (2) INFORMATION FOR SEQ ID NO: 1572:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 301
    - (B) TYPE: nucleic acid
    - (C) STRANDNESS: single
    - (D) TOPOLOGY: linear
  - (vii) IMMEDIATE SOURCE:
    - (B) CLONE: HUMGS01787
  - (ix) FEATURE:
    - (D) OTHER INFORMATION: "N"=unidentified base
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1572:

```
GATCCATTAC CTAGGGTAAA ATTCTCCTGA ATGTCAAACA AAGAGATAAA CTACATTTGG 60
GTTTTGGGAA GTCCCCTGTA ATGATGAATC AAGAATCCTC AAGTCTGTCT TGCCACCCAT 120
TTAATACGTA TTTTGTGTTA GGCTGAAGTT TAGAGTTAGA ATCAGGACAT TTTGGCCTAT 180
TGAGAGGTTT TGAATCCAA CAGAAGATGC CATGTAAATC AGTGAATTTN ATTCTTTTAA 240
AAGCAACTTA CAAAATTAC AAGATGTATT CAATAAAGCA GTTTAGCTTT GGTATATCAA 300
A 301
```

- (2) INFORMATION FOR SEQ ID NO: 1573:
  - (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 303  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01788  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1573:  
 GATCCTCAGT GTGCTCACGG GGCTGCTGTT CGGCAGCNAT GGCTACTACG TGGCGCTGGC 60  
 CTGGACCTCA TCGGCGCTCA TGTACTTNAT TGTGCGCTCT TTGCGGACAG CAGCCCTGGG 120  
 CCCCAGACAG ATGGGGGGGCC CCGTCCCCCG GNAGCGTCTC CAGCTCTACC TGA CTCTGGG 180  
 AGCTGCAGCC TTTNCAGCCC CTCATNATAT ACTGGCTGAC TTTCCACCTG GTCCGGTGAC 240  
 GTCTNGCCCC AGATGGNAAT NAGTTTTTTTA ATTTATTGN AAGGATTTTG AANTTCCTTG 300  
 AAA 303

(2) INFORMATION FOR SEQ ID NO: 1574:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 297  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01789  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1574:  
 GATCTGTGTT CGAATCCTCC CCACCCCTTT CTTTGTGGAG TTTCTAACC TGCTGCTGAA 60  
 GCACAATGTT TTGGTGCTTT CTTTCTCN N TTGTTAAAGG CAGTGTCCAA AAGCCATTCC 120  
 AGATGCCAAG ACCAGGGGCT TATTTCTAGG GAAGGTAGGT CGGTTTCCAT GTTTCCCTCC 180  
 CGTTATTTTT ATTTTNACT TTTTGCCTGA GACAAGCCGA GTATGAGGTG GTTTGATTTA 240  
 AGAAAAATCA ATGAAATTGT TTACTACTGT TTTAAAATAA AACCGTAAAC TCTGAAA 297

(2) INFORMATION FOR SEQ ID NO: 1575:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 299  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01790  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1575:  
 GATCAGGCCG TTNCTGAGCT CAACGGGACC CAGGTGGAGT CTGTACAGCT CAAAGTCAAC 60  
 ATAGCCCGAA AACAGCCCAT GCTGGATGCC GCTACTGGCA AGTTTGTNTG GGGCTCCCTC 120  
 GCTGTCCAGA ACAGCCCTAA GGNTTGCCAC CGGGACAAGA GGACCCAGAT TGTTTACAGT 180  
 GATGACGTCT ACAAGGAAAA CTTGTGGAT GGCTTCTAGG GAACAGNGCT GGATTCCTTG 240  
 TGCTCATAT GCCCAAATG CTGGTTTTCA GTAAANCACT TGAGGGTGGA AGCTTNAAA 299

(2) INFORMATION FOR SEQ ID NO: 1576:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 300  
 (B) TYPE: nucleic acid

(C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01791  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1576:  
 GATCCAAGAT AAAGAAGGCA TCCCCCCC GA CCAGCAGAGG CTCATCTTTG CAGGCAAGCA 60  
 GCTGGAAGAT GGCCGCACTC TTTCTGACTA CAACATCCAG AAAGAGTCGA CCCTGCACCT 120  
 GGTCTGCGC CTGAGGNGGT GGCTGTTAAT TCTNCAGTCA TGGCATTTCG AGTGCCCAGT 180  
 GATGGCATT A CTCTGACTA TAGCCATTTG NCCCAACTTA AGTTTAGAAA TTACAGGTTT 240  
 CAGTAATAGC TNGAACCTGT TCAAAATGTT AATANAGGTT TCGTTGNATG GGAGCATAAA 300

(2) INFORMATION FOR SEQ ID NO: 1577:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 295  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01792  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1577:  
 GATCTGGCTT CTTTCCCAAG GNGGGGGTGG GGTGTNCCTN GCGTCCCTGT CCTTGANGGA 60  
 CCTCCTTCCC CCAGCCTCAT CACCGTGCTC TTCTCAGCGC CACCCTCAGC AGCCAGATTG 120  
 CAACACCAGG GAGAGGCGGA TGCAGAGCCC CACCGGTGGG AAAGTTGCCT GTGGAAGGGA 180  
 GCCTTTTGCT ACAATTTGTA ACTTATTTNC TAAAGTCTAT TTTGTAACAA TTTATTTAAG 240  
 TTTAAAAAAA GGAAACTGC TGCCCNCCAA AAAAAGAAAT TTTCAAAACA AGAAA 295

(2) INFORMATION FOR SEQ ID NO: 1578:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 297  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01793  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1578:  
 GATCTAAAGT TCTGGCTGTC CATTAACCTC CAACTATGGT CTTTATTTCT TGTGGTAATA 60  
 TGATGTGCCT TTECTTGCCT AAATCCCTTC CTGGTGTGTA TCAACATTAT TTAATGTCTT 120  
 CTAATTCAGT CATTTTTTTA TAAGTATGTC TATAAACATT GAACTTTAAA AAACCTATTT 180  
 ATTTATTCCA CTA CTGTAGC AATTGACAGA TTAATAAAAT GTAACCTCAT AATTTCTTAC 240  
 CATAACCTCA ATGNCTNNTT TTAAANATA AAAATTAAAA ATGAAAAGNG NTANAAA 297

(2) INFORMATION FOR SEQ ID NO: 1579:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 289  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01794

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1579:

```
GATCTCTCTT GTCNCTNCT GCTCTTTNCT TGGTGCTCTT TTTNCTCGGT GGGGTGTGGG 60
TAATAGAACA GCCGTGGGCT TTTGGGGACC TTAACTTTT TTTNCTCTCT TTTGTTTATA 120
AAAAACACTA AACATTCAAT TCCAGAGAAC CAAAAATCCC ACCTTCCCAC CGAACACTAC 180
TAAGGGGCTT GTGTTCTGCN CCATACCTTT NCTCTTTNCT TTCTGTCTTG TTAATGCTTT 240
TAAAAACAAA TGAGTTTTTT ATATAAATAA AGTTTTTAAA GTGTGTAAA 289
```

(2) INFORMATION FOR SEQ ID NO: 1580:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 287  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01795

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1580:

```
GATCCCATCC GCATGGAGTT TGAAAATAAG GAAGACTTGT CGGGAACACA GGCAGGGCTC 60
AACGTCATTA AAGAGGCAGA GGCGCACNCC NGGTGGGCAG CCAAGGAGCT GAGAAGANCG 120
AAGAAGCTTT CAGACTACGT GGGGAAGANT GAAAAANCCA AAATTATCGC CAAGNTTCAG 180
CAAAGGGGAC AGGGAGCTCC AGCCCAGAG CCTATTATTA GCAGTNAGGA GCAGAAGCAG 240
CTGATGCTGT ACTATCACAG AAGNCANGAG GNGCTCANGA GATTGGN 287
```

(2) INFORMATION FOR SEQ ID NO: 1581:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 285  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01796

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1581:

```
GATCTATTGG CATATTCGGG AGCTTCTTAG AGGGATGAGG TTCTTTGAAC ACAGTGAAAA 60
TTTAAATTAG TAACTTTTTT GCAAGCAGTT TATTGACTGT TATTGCTAAG AAGAAGTAAG 120
AAAGAAAAAG CCTGTTGGCA ATCTTGTTTA TTTCTTTAAG ATTTCTGGCA GTGTGGGATG 180
GATGAATGAA GTGGAATGTG AACTTTGGGC AAGTTAAATG GGACAGCCTT CCATGTTTCAT 240
TTGTCTACCT CTFAACTGAA TAAAAAAGCC TACAGTTTTT AGAAA 285
```

(2) INFORMATION FOR SEQ ID NO: 1582:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 280  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01797

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1582:

```

GATCCTCCCC TTTTGAAATG GCCCTGCTGT GTCAGTTTCC CTGTGGCCTT TTGAACTGTA 60
CATCTCACAT GTTGGGAAAC GCTGGCCACT GGGAAATCAT TAGAAAGGAG GCTGTAGAAT 120
ATTTGCCGAG CCTCTACTGT ATACCAGGGG CTAATCACC AAGCACATTC TAGGAATTGG 180
GCCCTGCTCA TGAGGAGCCT TAGTGGAGAT TCCAGGTGAA TATTTATGAA AAAGTCAACA 240
TTAGAACTGA AAATGGAAAT AAATGCTTG AAAAGACAAA 280

```

## (2) INFORMATION FOR SEQ ID NO: 1583:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 273
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

```

(B) CLONE: HUMGS01798

```

## (ix) FEATURE:

```

(D) OTHER INFORMATION: "N"=unidentified base

```

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1583:

```

GATCAGAATG GACTTCTNCC ACTGAGCATG ACANGCACTC GAAAGGCTAA ATCAACCAGA 60
AACATCGAAA CAAAAGCTCA GGTTGTCCCC CCGGCACGCT CCACANCTGG TGACCCGACA 120
GTTCTGGCT CCTTGTTTCA ACAGCTTGTC AGTNAAGAAG ACANACGTC TGCACCTNCA 180
TTATTCAAAC TTGGCTGGCT CTCTAGTATG ACTACGNACA TGGAACACAT CTGTCTCTCC 240
CTAAATAANT ACTACCACAT TATTNCTTCT AAA 273

```

## (2) INFORMATION FOR SEQ ID NO: 1584:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 270
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

```

(B) CLONE: HUMGS01799

```

## (ix) FEATURE:

```

(D) OTHER INFORMATION: "N"=unidentified base

```

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1584:

```

GATCCATATT TGTTTTGTGT TCTGCTTAAA TCAGCAAGAA TGATAAATTT GATGGTGTGA 60
AATTGGAAGT ATCAAGGGCT TTCTTTGGTG ATTGAGGGAA ATAATGTCTC TACTTGTAAT 120
TTATTGTGAC CCTTTTTCAC TGTATATGCT TTGTATGTCT AATATTTATT TCAATGCAAA 180
TTCAATTNNC CCTTCATCTG TATTGTTATA TCTAAGATTT TATTGATGTT AAAATCTAAT 240
TGTGGAATAA AAATCTCTCT GGAATTTAAA 270

```

## (2) INFORMATION FOR SEQ ID NO: 1585:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 270
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

```

(B) CLONE: HUMGS01800

```

## (ix) FEATURE:

```

(D) OTHER INFORMATION: "N"=unidentified base

```

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1585:

```

GATCTGCTTG ACAGTGATTA AATCCTTAGC TCACATCCAT TCCCATCTTT NGGGCTCCTT 60
AGGCCCAAGG ATGGCATGTG ACTGGTCCCT GCAAGGTCCT TTCTTTGTCA CCAGCCAAGG 120

```



CATTGATAAC CAAGTAGCCA TTTTCCTCTT AAGGTTTCCT CTACAACCCC AAGGACTTTC 180  
 ATGATTATCC TCAGGGACAG GATTGGAGGC ATTGAGCGTG TTTATTAACA AATTGTTTTT 240  
 GGTAATAAAA TAAATGCTTG GACTCTTAAA 270

(2) INFORMATION FOR SEQ ID NO: 1586:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 269  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01801

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1586:

GATCTNGTAA ACTCTCTGTA TATCTTCCTA CCTTTCAAAA TCGTTCCTTAG GGTTAGTCAA 60  
 GTCTGGAATA TAATTGCTGA CTATAAAGTT AGCAATTATG CTTTAAAGGT GTTGTCACAT 120  
 CAACCTAAAG AGAACCATCT ATGGAAGGTA TGGTTGAAAC ATCTGTAGGA ACACAGAACT 180  
 GGGATTTCAC TGAGTTTACC ANNTCAACTG TGTGAAGTGT TTCTGCACTG CTTGCTAATG 240  
 GCTTCATCTA ATAAATGTTT ACTTATAAA 269

(2) INFORMATION FOR SEQ ID NO: 1587:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 267  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01802

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1587:

GATCTAGGGA AGTCAACACA TAGTGTAATAA TAATTACATG CCTAATGAAA AGAAGATGTC 60  
 ATTTCTAAT TTTNATATCT CATTTTCGGC ATTTTAAAA ATGTAAAAGG AAAACCTCTT 120  
 GTGTTACAC AGATTGCTGA ATTGATTTCT CCATATTTGT TAATAATTTA CTATTATTTA 180  
 CAAAGATTCA AATGCTTTTA TGACTAATGT AAAATGAAAA GAGGCTTACA TTTTAAATGT 240  
 TATTAATAATT ATGTACTTAA ATCTAAA 267

(2) INFORMATION FOR SEQ ID NO: 1588:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 288  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01803

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1588:

GATCGCTTTG AGGTCAATAT TAGTGAGCTG CCTGATGAGA TAGACATCTC CTCCTACATT 60  
 GAACAGACAC GGTAGAAGAC TCGCCCATTT TGGAATGTGA CCGTCTNTCC TTCAGGNGAG 120  
 GACACCAGGN TGGGGGTGAA GGAGACACTA CTGCCCCCAG CCCTGACAGC CCCCACCCCA 180  
 TGGCTTNCAT CTTTTGCATN ACCANCACTC CTGAACCCCN ATTTCTNATT TGTCAGAATT 240  
 TTTTTNNTTA ACAAACACTAG AAATGNANCA CATGGGGTCT GTGGTAAA 288

## (2) INFORMATION FOR SEQ ID NO: 1589:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 266
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01804

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1589:

```
GATCTTGCCCT GTTTCACAAT GTAACAAGAC TCTACCTGGG TCCCCTGGTG ATGAGTTTCA 60
GCATAGAATA ATGTTCAAGG AAAAGAAAAC GAAAACAGTT TAAATCTCTA CCACAGCCTC 120
ACAAGCAAAT GCTAAGGGGA ACATACATGT AAAANGCCAG CAAACTATCT TCAAACCTCT 180
CCGTCCTTAA TGTCTTCCAT GGCTATTGCC CCCACAATGG TCTCTTTNNT CCCTGCTCCC 240
TTATTAANGA ACTCTTTCTG AAGAAA 266
```

## (2) INFORMATION FOR SEQ ID NO: 1590:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 266
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01805

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1590:

```
GATCTATGAC TCCAACCGTA TGATTTTNTT GCCTCCCCAG TTTTCATCCC AGTGGTAACG 60
CCTGATTTTT GGTAGCTATG CCATCTTCTG CTGAGGATTA CCATTACTGG GTGTATCACC 120
CCAGTACTTC CAAATNCCTC TCCTCTATTG ATTCAGTTGT TATTGCAGTG TCTGCTTCAT 180
CCGTGGAAGT TGAGGCTCAG ATGCCCCCTG CTCTGTAACC CTGGGGAATG TCAGAGGCAG 240
GTAATAAAGG TTGTTTAAAC AATAAA 266
```

## (2) INFORMATION FOR SEQ ID NO: 1591:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 265
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01806

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1591:

```
GATCAGGAGA CTTTGAATTN ATATATTTTA ATCCTNATTA AGCTTAAATA GGAAAGTTTC 60
TTCAACAGGA TTACAGTGTA GCTACCTACA TGCTGAAAAA TATAGCCTTT AAATCATTTT 120
NATATTATAA CTCTGTATAA TAGAGATAAG TCCATTTTTT AAAAATGTTT TCCCCAAACC 180
ATAAAACCCT ATACAAGTTG TTCTAGTAAC AATACATGAG ANAGATGTCT ATGTAGCTGA 240
AAATAAAATG ACGTCACAGG GCAA 265
```

## (2) INFORMATION FOR SEQ ID NO: 1592:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 254
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS01807
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1592:

```
GATCTGAGAG AAGCCCTGTC CTCCACTCAC CTCACCCGCC GCTGCCACCA TCTCCTCTGT 60
GCCAACTCCT TGTGGACCGC AAGAAAGCAT GACTTTGAAA AAGGGAAGCC ATTCCGAGAT 120
TTTAAAATGT TCATGGACTA TTCCATATTA AAAGCTGTTT TTGTTGTACA AAATTCCTG 180
ATGTTTCAGTT CTATTTTATT TTGCCTTCAG AAAAGAAGAA AGTCAAAAAT AAAACTTTTG 240
TGTATTACAG CAAA 254
```

(2) INFORMATION FOR SEQ ID NO: 1593:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 255
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS01808
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1593:

```
GATCCTGGAG GATTTCCTAC CCCCGTCCTC TTCGAGNCCC CAGTCGTGAT GTGGAGGAAG 60
AGCCACCTGC AAGATGGACA CGAGCCACAA GCTGCACTGT GAACCTGGGC ACTCCGCGCC 120
GATGCCACCG GCCTGTGGGT CTCTGAAGGG ACCCCCCCCC AATCGGACTG CCAAATTCTC 180
CGGTTTGCCC CGGGATATAA TAGAAAATTA TTTNTATGAA TAATGNAAAT AAAACACACC 240
TNGTGGCATG GCAAA 255
```

(2) INFORMATION FOR SEQ ID NO: 1594:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 282
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS01809
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1594:

```
GATCCATGAA GGAGGGCTGT GTGGAGAAGA TTGGGGACTG GCTGAGGAAA AATGTGCTGG 60
TGGTAGCTGC AGCAGCCCTN GNGAATTNCT TTTGTGAGG TTTTGGGAAT TGTCTTTNCC 120
TGCTGCCTCG TGAAGAGTAT CAGAAGTGGC TACGAGGTGA TGTAGGGGTC TNGGCTCCTC 180
AGCCTNCTCA TCTGGGGGAG TGGAATAGTA TCCTCCAGGT TTTTCAATTA AACGGATTAT 240
TTTTTCAGNC CGAAAAGNGA TGGTCTGAGT TTNTCTTAGA AA 282
```

(2) INFORMATION FOR SEQ ID NO: 1595:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 256
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single

(D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01810  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1595:  
 GATCAAATAA ACCAGTGTAG GATATTAAGA CTATCAATTG GTGGGATTAG GCTTGACATT 60  
 TTATTTTAT AAATATATAT TTNTCCTGAA TGTGTCTGAG TCCAAGAGTG GGCAAAAAAT 120  
 AATTTNCTAC TTTGGACTAA TCTATAGAGG TTTTGTAAAG TCTGCATTAC TAACTTGTTG 180  
 AATTCATGAT ATTCTGCCTA TGGCACAAAT TGTAACCTT TGTTTNCTA AAATAANGTA 240  
 ATTGAAAACC TGNAAA 256

(2) INFORMATION FOR SEQ ID NO: 1596:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 204  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01811  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1596:  
 GATCTGCGCT TCCAGAGCGC ACTAATNCGG TGCTTTGCAG GAGGCAAGTG AGGCCTATCT 60  
 GGTGCGCCTT TTTGAAGACA CCAACCTGTG TGCTATCCAT GCCAAACGTG TAACAATTAT 120  
 GCCAAAAGAC ATCCAGCTAG CAGCCCGCAT ACGTGGAGAA CGTGCTTAAG AATCCACTAT 180  
 GATGGGAAAC ATTTCAATTCT CAAA 204

(2) INFORMATION FOR SEQ ID NO: 1597:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 246  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01812  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1597:  
 GATCATTATT ATATATAGGT ATTGATTGCT ACCCTGACCA CAGTGCTTTG GACTATGAGA 60  
 AACTTCTTAG ATTTTNATAT GTAAATNCTG TGGACCACTG GGAGCACAAT GCCCACATCA 120  
 TCTTAAGNNG AGTTTATGTG CAGCATTTAA ATCACTGTGT TTTCTTGTT AACTAAAACA 180  
 GACATGGGCT TTGATTTTTT TCATACTATT AGACCATATC TCATAAAACC TTTTGAATTA 240  
 ATGAAA 246

(2) INFORMATION FOR SEQ ID NO: 1598:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 285  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01813  
 (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1598:

```
GATCACGCAC ACACAATAAG TCTTTCTCTC CGAAACCGGA AGTAAATCTA TATCTGTTAG 60
AAATAATGTA GCCAAAAGAA TGTAATTTTG AGGATTTTTT TGCCAATAGT TTATAGAAAA 120
TATATGANCC AAAGTGATTG GAGTTTGTA AAATGTAAAA TAGTATGANC AAAATTTGCA 180
CTCTACCAGA TTTGAACATC TAGTGAGGTT CACATTCATA CTAAGTTTTC AACATTGTGT 240
TCTTTTGGCA TTCATTTTTT ACTTTTATTA ANGGNTCAAA CCCGN 285
```

(2) INFORMATION FOR SEQ ID NO: 1599:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 241  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01814

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1599:

```
GATCTAACTA TGTTTCCCCC CTTTCAAGAA TAGAACTATT GGGGTGAGGA TAAGGGGTGG 60
GGGAGAAAAA ATCACTGTTT GTTTTTAAAA AGCAAATCTT TCTGTAAACA GAATAAAAGT 120
NCCTCTCCCT TCCCTTCCCT CACCCCTGAC ATGTACCCCC TTTNCCCTTC TGGCTGTTCC 180
CCTGCTCTGT TGCCTCTCTA AGGTAACATT TATAGAAGAN NTGGAATGAA TCTCCANGAA 240
A 241
```

(2) INFORMATION FOR SEQ ID NO: 1600:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 239  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01815

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1600:

```
GATCCAGAAT ACCCTGACCT CGCCCCAGTT CCAGCAGATG TGGAAGCGTT TGCCAAAGCC 60
ATGCAGAACAA ACGCCAAGCC CGAGCAGAAA GAGGGCGACA CGAAGGACAA GAAGGACGAA 120
GAGGAGGACA TGAGCCTGGA CTGAGCCACG CGCCGTCTC CGAGGAAGTG GCGCTTGCA 180
GTGCGTTGCA CACCTCACC TCCACCCAC TGATTATTAA TAAAGTCTTT TCTTTTAA 239
```

(2) INFORMATION FOR SEQ ID NO: 1601:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 236  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01816

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1601:

```
GATCCAAAGT AATATGTAGG TTCAATATTT TGTAGGTTTT ATAATCAAAT GTCTCCCTAA 60
AGAGATGACA TAGGGAAGAA AAGCCTAATG TATCATCTTA ATGGATTCAG TTTTATTAT 120
```

GCACAAATAA CTGGGCTTGT AACCTAGGAA TATGATTAGA GCGTGATGCT GGCTTAAAAA 180  
 ATAGGACTNG TGAATCACAG TTTGTNNNTA ATAAACTACT GGTTGGAAAT ATTAAA 236

(2) INFORMATION FOR SEQ ID NO: 1602:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 235
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01817

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1602:

GATCTCCCCG CCGCAGCCTC CTCAGAAGAC ATCGAGCGGT CCTGAGAGCC TCCTGGGCAC 60  
 GTTTGTCTGT GTGCTGTAAC CTGAAGTCAA ACCTTAAGAT AATGGATAAT CTTCGGCCAA 120  
 TTTATGCAGA GTCAGCCATT CCTGTTCTCT TTGCCTTGAT GTTGTGTTGT TATCATTTAA 180  
 GATTTTTTTT TTTTGGNAAT NATTTTGAGT GGCAANTAA NGATTAGCAN TTAAA 235

(2) INFORMATION FOR SEQ ID NO: 1603:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 324
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01818

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1603:

GATCTGCCCCA GGTGCGCCAG ACTTCCTAGC ACACGTGCGC GGGAGCAGCT GCTTTGAGTG 60  
 CACACACTAC CAATCGTTCC TGGAATACAG GGAGGTGGTG GACGGCCTGG AGAAGGCCAT 120  
 CTACAAGGGC CCAGGCAGCG AAGAGGGCCC TGACTGCCCC CCCC GGCCCC CCTCTCGGGC 180  
 TCTCTCACCC AGCCTGGTAC TGAAGGTGCC AGACGTGNTC CTGCTGACCT TCTGCGGCTC 240  
 CGGGCTGTGT CCTAAATGCA AAGCACACCT CGGCCGAGGN CTGCGNCCTG ACANGGNNAC 300  
 CTCTCTGAAC TGCAACACTT GGAN 324

(2) INFORMATION FOR SEQ ID NO: 1604:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 235
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01819

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1604:

GATCAAAAAG CAAGCAGAAA TGAATCCACA TTCTAGTCCT TTATGCAGTA TACAAGGAGA 60  
 ACTGTCCTGT AGGATATTCT CTTCCTGATG GTGCAGAAC CAGAATTAGA AGTTTGTGGT 120  
 TACAGCATAC TCTGTCCTTC AGAAAGGCGT GATTCTAGCT GTTGACCCCT TGCAGCTGTT 180  
 GGAATCTCTG CAAGAACCTC TGTATTCTTC TAATAAATC CCTCTTTTAT TTAAA 235

(2) INFORMATION FOR SEQ ID NO: 1605:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 235  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01820  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1605:  
 GATCCCAACA ATGAAGCCAT TCGAAATGCT ATGGGCTCCC TGGCCTCCNA GGCCACCAAG 60  
 GACGGCAAGA AGGACAAGAA GGAGGAAGAC AAGAAGTGAG ACTGGAGGGA AAGGGTAGCT 120  
 GAGTCTGCTT AGGGGACTGC ATGGNAAGCA CGGAATATAG GGTTAGATGT GTGTNATCTG 180  
 TAACCATTAC AGCCTAAATA AAGCTTGGCA ACTTTTTTCC CTTTTTTGCT TCAA 235

(2) INFORMATION FOR SEQ ID NO: 1606:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 234  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01821  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1606:  
 GATCAAAAAG AGAGTGGTTG TGGAACCTGT TGGCCCAGTT GGTTTCAAGC CAGAGACATT 60  
 CAGAAAGTTT TTAGCTCTAT ATTTGCATGG TGCTGCGTGA NGGAGGACCC CTCTGAATCC 120  
 TGAAACCCCT CTTGCCTCTC TTCCACGGAA GAGGGCCTGG GCCCCGTGGA GCCTCAGTGC 180  
 CCGTTTGGCC TGCTGCTCTC GCTGACAATA AAGAGCCCTT GCGTTGCACT GAAA 234

(2) INFORMATION FOR SEQ ID NO: 1607:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 234  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01822  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1607:  
 GATCTGGAAC CTCAGCCTGG CCAGACACAG GCCCTCCCTG TTCCCCAGAG AAAGGGGAGC 60  
 CCACTGTCCT GGGCCTGCAG AATTTGGGTT CTGCCTGCCA GCTGCACTGA TGCTGCCCCCT 120  
 CATCTCTCTG CCAACCCTT CCCTCACCTT GGCACCAGAC ACCCAGGACT TATTTAAACT 180  
 CTGTTGCAAG TGCAATAAAT CTGACCCAGT GCCCCCACTG ACCAGAACTA GAAA 234

(2) INFORMATION FOR SEQ ID NO: 1608:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 356  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01823

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1608:

```
GATCACATAA AACAGATTTG CATAAAATTA CCATGATTGC TTTATGTTTA TATTTAACTT 60
GTATTTTTGT ACAAACAAGA TTGTGTAAGA TATATTTGAA GTTTCAGTGA TTAAACAGTC 120
TTTCCAACCTT TTCATGATTT TNATGAGCAC AGACTTTCAA GAAAATACTT GAAAATAAAT 180
TACATTGCCT TTTGTCCATT AATCAGCAAA TAAAACATGG CCTTAACAAA GTTGTGTTGTG 240
TTATTGTACA ATTTGAAAAT TATGTCGGGA CATACCCTAT AGAATTACTA ACCTTACTGC 300
CCCTTGTAGA ATATGTATTA ATCATTCTAC ATTAAAGAAA ATAATGGGTT CTAAA 356
```

(2) INFORMATION FOR SEQ ID NO: 1609:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 230  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01824

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1609:

```
GATCACCTAT GCCAAGAAAT AACATTTGGG ATAGTCGTCT TTAAAAGACT TGGTGTATT 60
TACAGTGTGT GTTTTGATAA CATTTGGCTG GGTCATTTTA ATAGTTAGAG ATGAGGAGGA 120
GTAAAAGTGA AATTTTTGTG AAGGACTTAA ATTATCCAGT GTTCTTTTAG CCTTGGTGAA 180
CTATGAAATA CGAAGNCCTT AATTTTGTAC AATAAAGTTT TATTTGTAAA 230
```

(2) INFORMATION FOR SEQ ID NO: 1610:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 227  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01825

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1610:

```
GATCTGTTGA ATATTTGCTA AAGACCAGTT CTTTAAGCTA AGACATGTAA AAAATCCCAA 60
ATGGCAGTAC CTCATTGTTT ACTTAGCTTT TGTACTTATA TTTTTCAGAG GAAAAACAC 120
TACTGTAAAT TGTGAATAGC CAATACATAA CTGTATTGTA TGCAAATCTG TGATTGTTGG 180
CAGTGTCATC TCTGAGAAAC AGATAAATAA AGTTTATTTA CTATAAA 227
```

(2) INFORMATION FOR SEQ ID NO: 1611:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 234  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01826

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1611:



GATCTAGCCA AGGCTGGTCT GCAGTATCAG ATGTCCAAAC TCATCTACTA TTAGCCATAT 60  
 TTTGTGAGTC GTTTGTCTAA ACTTTGTCAA AAATGCCTTT GCCATGATTT TGTGCTATC 120  
 TGGATTTCAA ACATGGACAG TTAGGAAGAT GTGCATTGAA GTAGGAAAAT TTTGTTTACA 180  
 TTTGCTGTTA TTTATTTTTT AAATTAATAA TGGAAATGTA TTTTAAAGTT TAAA 234

(2) INFORMATION FOR SEQ ID NO: 1612:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 226
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01827

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1612:

GATCTGTTGG GTTCTCTATT AATTTATTTT ATACATTATA GATTCTGGGT TGATAAATTC 60  
 TGCTCAATTT GAAAAATTTT ATATTTTGTC TCAAATCTGT TACAATTTAT ATTGGTGGGN 120  
 GCAAAAGTAA TTGCGGTTTT TGCCGTAGAC AGTAATGGCA AAAACTGACA ATTGCTTTTG 180  
 CACCACCCTA ATAATATTAA NTATAATCAT GACTTTAAAC ATCAAA 226

(2) INFORMATION FOR SEQ ID NO: 1613:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 224
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01828

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1613:

GATCGGGAAC TGGCTCCGTT GTGCTGAGGT CATCTTTGGT CATCAGCCTC CAGCATNTGG 60  
 AAACACCTCC AACGCAATGT GGCTTTTACA TTTCTTTCTT TCTTTCTTTT TTTTCCTGG 120  
 TACTGGGAAT ACACAACACC AGCTGTTTTA TTATTATTTG GGGAGGGGGT TGTGATTTTA 180  
 TTATTNGTTT TTTTAAATG AAAAATAAAA NGTTATATAT TAAA 224

(2) INFORMATION FOR SEQ ID NO: 1614:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 222
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01829

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1614:

GATCAGCAGA TACATGTCAG TGCAGAGGTT CTCTGCCCTC CAGAAGCCCT CGTCTGGGAA 60  
 TTCGAGAGAG GAGGAGGACC CAGGGCCAAA GGAATCCTCA AACTTCCCTC CAAGGGAGAT 120  
 ATTGTAAGGG GAAAACAAAG TGTTTATTTT CCCAAAACAA CCCAGCTTCA CCCCATGTCC 180  
 CTTCTACACG CTTACTCACT GAGGGTGAGT GGGAACGNTA AA 222

(2) INFORMATION FOR SEQ ID NO: 1615:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 222  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01830  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1615:  
 GATCAGAATA TGTATGCAGT TCTTTCTTTA ACCCTTTTTT CTCCTATGTA CTGTGAACAT 60  
 TTA AAAAGTA CTTTAAATA TTCTTTGGAA ACTTAGCTTT TAGTAACTAC TTGGTTGTAT 120  
 CATAATTNAT TAACTANTGN NTTATTGGTA AACATTGGCT TGCCTCCCAT GACTTGCCAT 180  
 TATAATTAAA ACTGTGACTA CTATCTGTCT CCATTNCATA AA 222

(2) INFORMATION FOR SEQ ID NO: 1616:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 219  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01831  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1616:  
 GATCCCN TTC CCACCCTCTC TGTTGGCCTC AGAGTCACTC CTGCCCCCTC TCCCTGACTT 60  
 GGTGCTCACA TGCACCTCAC TAGGGTTTGT GACCAGGGTC TGGATGAGCT TGAATTTGAA 120  
 TGAATTGAGT TTGTATTTNT AGAACCCTGG GTTTTTACAT GTTTGGTCTT TTTTNGTTTT 180  
 GGT TTGTAC CNTCGATAAA GGAAGTATAT TCATCCAAA 219

(2) INFORMATION FOR SEQ ID NO: 1617:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 220  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01832  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1617:  
 GATCGEGGCG GANTNGGCC CGCCGCCTGG TACTCAAGCC CGCGGGGACA TTGGGAAGGG 60  
 GACCCCGCC CCCTGCCCTC CCCTCTCTGC ACCGTACTGT GGAAAAGAAA CACGCACTTA 120  
 GTCTCTAAAG AGTTTATTTT AAGACGTGTT TGTGTTTGTN TGTGTTTGTN CTTTNNATTG 180  
 AATCTATTTA AGTAAAAAAA AAAATTGGTT CTTTATTAAA 220

(2) INFORMATION FOR SEQ ID NO: 1618:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 216  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01833

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1618:

```
GATCANGGCA CTTCAACTCA TTTGGAAAAT NTGAACACTG ATGACATGGT ATAGGAGTGG 60
GNGGGGTGTT GAGCCACCCA TCANACCCTC TTTAGCTGTG CAAGATAAAA GCAGCCTGGG 120
TCACCCAGGG CCACAAGGCC ATGGTTAATT NTTANCGGCA AGGCAAATCC ATNGTTGNGA 180
AGTGCANTGG GCATAGTAAA NGTGCATGAT TTTAAN 216
```

(2) INFORMATION FOR SEQ ID NO: 1619:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 214

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01834

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1619:

```
GATCATAGAA AATAAATAGA AGAGACAGTG AAGCAAGTAA AAAGAAAAGC ATTGTTTTAA 60
TTTGTTTGCA TTAATTTTTT TCATTTGTCA AAATGCTTCT TTTGTTGCCA CAGTAAAGAA 120
CAGTTTTTAT TGTTTTGTAA GTAAAATTAC GTAGCTGATT TTGTATGTAA AGATTAATTT 180
CCATAATAAA AATTATTGTA TGTTTACTGT GAAA 214
```

(2) INFORMATION FOR SEQ ID NO: 1620:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 214

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01835

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1620:

```
GATCAGAGTG GCCACAGAC ATTGCTTTCT TATCACCTAT CATGTGAATT CTACCTGTAT 60
TCCTGGGCTG GACCACTTGA TAACCTCCAG TGTCCTGGCA GCTTTTGGAA TNACAGCAGT 120
GGTATGGGGT TTAATNATGCT ATAAAACAAT GTCTGAAAAG TTGCCTAGAA TATATTTTGT 180
TACAAACTTG AAATAAACCA AATTTGATGT TAAA 214
```

(2) INFORMATION FOR SEQ ID NO: 1621:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 211

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01836

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1621:

```
GATCTGTGTC ATAAGTGACT CCGGATGCAT CAGTGTCCAC CAGTTGGAAG CAATGACAAG 60
GATGGCTGGC TGGTGTTTTT CAGCCTTCCG GTTTATAGAC TGTATTTATC TAGTGGATTC 120
```

CTGCAGGCCC CATACTGAGC CTGGACTGAA AGTATCCACT CGGACCATCT GTTATCTCTC 180  
TACACTGAAA ATAAAACCTC TTCCACCCAA A 211

(2) INFORMATION FOR SEQ ID NO: 1622:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 211
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01837

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1622:

GATCTGAGAT GGAAGAGTTT CATCCCAAAA CCATCTCCCC CTGACCCCCA GTCCATGGAA 60  
AAATTGTCTT CCACAAAACC GGTCCCTGGT GCCAAAAAGG TTGGGGAACT GCTGGTCGGT 120  
ACAAAAGTAA TTGTGGTTTT TGCACNGTTG GAATTTGTCA TNTGATATTG GAATACATTC 180  
TTAAATAAAT GTGGTTATGT TATACATCAA A 211

(2) INFORMATION FOR SEQ ID NO: 1623:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 212
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01838

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1623:

GATCAGCGAG GTTCTCCAGG ACCTTAGGTT TGATGCGGAA TCTGCCGAGT GATGGCGGCT 60  
CCCCAGGGAT GCCGCCGAGG GAGATGGGAA ACGGGGCGGA TGGCGCCCAG CCCAGCCCTA 120  
ACTGCCAGCT GGCTGGGGTC GCGCCCCACT GCGCTGCTGA CCTTCCTGCA GTTCCAGACA 180  
CCTCCCACAA TAAAGAGCTC CTCCTCTGTA AA 212

(2) INFORMATION FOR SEQ ID NO: 1624:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 208
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B)—CLONE: HUMGS01839

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1624:

GATCTATGAC AATGTATAGT CAATAAATGA TAGCAATTAT TTTTAATTAT CAAAATAAAT 60  
TGTTAGAGAT TCAAGTTAGC ATACAAAATG GAAATACATT GACAATCTAA AAACATACT 120  
AAAACATAAA CTCAAGACTT TATTCCTCTT CCTGTTCTAT CAAAATTGTG CCAAGTAAAA 180  
AANTAAAANT TGTTCCTTTT ATTTCAAA 208

(2) INFORMATION FOR SEQ ID NO: 1625:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 210

(B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01840  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1625:  
 GATCTAGATG GCAGATAGGA ACTTTNTTGT CACAAAAATA CTGGAGGAAA ATNTTGTAAG 60  
 AATAGACTTT TGGACACACA GCTGTTGGGG CTGCACTGAG CTGCAATTTT TAACATGGAT 120  
 TTATAACTTA ATGTTTCTGT TTATAAAATA CTAATGATTT GCAATGTATT TTACTGGCCA 180  
 ATTAAACAG ATGTTTTATT CTTTCTGAAA 210

(2) INFORMATION FOR SEQ ID NO: 1626:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 208  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01841  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1626:  
 GATCCAGGAT TCTGGGAGGC TTCAGTTACC GCTGGCCGAG CTGAAGAACT GGGTATGAGG 60  
 CTGGGNCGGG GCTGGAGGTG GCGCCCCCTG GTGGGACAAC AAAGAGGACA CCATTTTTC 120  
 AGAGCTGCAG AGAGCACCTG GTGGGGAGGA AGAAGTGTA CTCACCAGCC TCTGCTCTTA 180  
 TCTTTGTAAT AAATGTTAAA GCCAGAAA 208

(2) INFORMATION FOR SEQ ID NO: 1627:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 203  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01842  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1627:  
 GATCTCACAG CCACGAATTT AGAACTTCCT CCTATAGCAT TTTCTATCTT TTTTATGGCA 60  
 TTTATTTTAT TCTATCTTGT TATGATTACA TAATCTGTTT AATCCCCAAT TATATATTGT 120  
 AAATACCTTG AAGGAAAGGA GTCTTTATTA TCTTTGGTGC CTGGTGTTTA GTTTTAATAT 180  
 TTTATTAAAT ACATCCAAGG AAA 203

(2) INFORMATION FOR SEQ ID NO: 1628:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 203  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01843  
 (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1628:

```
GATCCACTGT TCAATCTGCA CAAGATTNGG GNNCCAGACA TGGGAGACTT CAGCTGCCTC 60
AGAGGACCGT GGACAGGGAA GGCAGCCTCG CATCCCTCTG TCCATGCCTG GNNTGACTTT 120
AATAACCAAG AGTTTTATTT TTGAATTGT AGCTGTCGTT CACTTTTTTAC CCACCCATTC 180
AATAAACCTT ACAGAATTGC AAA 203
```

(2) INFORMATION FOR SEQ ID NO: 1629:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 201  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01844

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1629:

```
GATCCAAGTA ACAGTGACTG CAGTTAGGGT CGAGAGCTTC TCCGAAGCAG CGGTCATGCA 60
GGCTTTTGTG TGGCTGACGC TTCCCTTTTT CACAACAGTA AAAAGCTATC AATGGGAAAT 120
TGTGGACTTT TCCCACCAGG GACTCAATGG GGACTCAATG TGCAATATTC AGTCAACATA 180
AAACTCTTTA AGAACTCCAA A 201
```

(2) INFORMATION FOR SEQ ID NO: 1630:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 201  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01845

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1630:

```
GATCACAGAC CACGAGTGCC TTTCCCGGAC CTGGACGTTG CCTCCAGAGC AGGCACCANC 60
TCTTTCCCTC TCTAGACAGA AATATTTTTG TAAGGTTCTG GGGCAGGGAG GGAGCATGAA 120
GTACGAGGAA AACTTGAATT CCAGATTTTN AATGCAAAGT ATTTATCATT TCTACCAGAA 180
ATAAACGTTT TAAGTTTAA A 201
```

(2) INFORMATION FOR SEQ ID NO: 1631:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 217  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01846

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1631:

```
GATCTTGAGG TCACTTCGTT TAGGTCATTN TCTCAACCCA ACCTCCCCAA ACTCTGGTTT 60
GAGCCAATAT GTGTTCTATT GTTCTCAGAG CACCAGCCGA CTGTACAACA ATTGTTATAA 120
AAATGTTTAT TGTTTACCAA AACCAGTGGA CCTCTTATCA AATGCTGCTT GGTAACAAAA 180
TCTATCACAG TTTTAATAAA AAGAAAAAA AAGGAAA 217
```

## (2) INFORMATION FOR SEQ ID NO: 1632:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 200
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01847

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1632:

```
GATCTGTTTT NNTTAAACAC TAACAGAATA ATTCTTTATA AATAGGTAAG CCTTACACTT 60
GTTAAAGAAA TTTACCTCTA ATTTCACTCT CACTAATGTA AAATACTGGG ACTTAAGTAT 120
ACAATTCAGT CACTAACTGT ACAGTTTTAT GTGGGGAACA ATTCATGCAG GCTACTGGAA 180
AATTAAATCT TATTACCAAA 200
```

## (2) INFORMATION FOR SEQ ID NO: 1633:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 200
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01848

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1633:

```
GATCCNGGGC ATTTNCTCTG GGGAGACAGG CCTGAGGCCA GCTCGGNAGC CAAGCAGATT 60
CCAAACCACT ACAACCCTTG CCAAACACAG CCCACTCCAT TTANANACCGC CTTCTGAGG 120
AGAAAATGCA GACTCAGGGT TCCAGTAACC AGTGATGGAT TCACCCCATC TCCCAAATAA 180
TGTTTACTT GTTTTACAAA 200
```

## (2) INFORMATION FOR SEQ ID NO: 1634:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 333
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01849

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1634:

```
GATCTTCTAA GAATTTTGCA AAATTCTAAA CAAATATAGA GATGGTATAT AGAATTCATA 60
TCTAGAAAAC TTTGATTTTA ATGTGAGCTT ATCAAATTTG TNCTGGCTTT TTTGGCACTA 120
AGGCAAAAAC ATGTTAACCA GAAATAATTT ATTCTTCATG TATGTAAAAT ATTTGAGAAT 180
GTTTAGCCTT TTATTAGAAT TTTATTTGGA AAATATTTAT CTTTCTACAC ATTTTACACT 240
TATGTNCCTT TGCTTATAAC CCAATTTCTT AACTTTTTTG TTAATAAGC AAATATCAAT 300
NATGTTTTAT TATCTAATAA AGTGTAAGAT TCN 333
```

## (2) INFORMATION FOR SEQ ID NO: 1635:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 199

(B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01850  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1635:  
 GATCGAATGG CTTTTTGCAG CTAACACTA TGTGTAGACA GGTTTTATAT TATAAAGTAT 60  
 GCATTCTTAT CACCTAGTAT ATAGTTAGTT TGTAGAGTGA TTTCCCCCA GTTTCTTGAA 120  
 CATGGTATCT TCACATCTTG GACCTTGGTC AGTTGTGCTA TTCATTATTA AACACTAAAA 180  
 CTTTGGCGGT TCTTGCAA· 199

(2) INFORMATION FOR SEQ ID NO: 1636:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 196  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01851  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1636:  
 GATCTGGATG TTGAAAAGAG TCTGGCACCT CCTCCTCTC TCTTGCTCAC ACTCTCACCA 60  
 CGTGATATGC TGCCTCCTCC TGTGCCTTCC ACCATGAGTA NAAGCTTCCT TANNCTCTTN 120  
 TNAGAAGCAG ATGCTGGCAG CATGATTCTT GTACAGTCTG CAGAACAGTG AGCCAAATAA 180  
 ACCTCTTTTC TCTAAA 196

(2) INFORMATION FOR SEQ ID NO: 1637:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 196  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01852  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1637:  
 GATCCAAGTA TTTCTNCATC AAGCAGTTTT TAAAAGGAAA ACGATAATAA TCAGTAGGCT 60  
 CCATGGAAGC CTTTNCCTTA ATAGCTATGT GCCAAATACT TTNATCTNGT GTGACAGTCA 120  
 TGTCAGAGTG AATCTCTCA GGAAAAGTGT AACTAGTAGT TACAAAGTAA ATAAAGGATT 180  
 TCATTTTAAG GTGAAA 196

(2) INFORMATION FOR SEQ ID NO: 1638:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 195  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01853  
 (ix) FEATURE:



(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1638:

```
GATCCTCCTG CAGGGCTAGG CGGATTGTTT TGGATTTCCT TTTGTTTTTC CTTTGTAGTTT 60
TCCATCTTTT CCCTCCCTGG TGCTCATTGG AATCTGAGTA GAGTCTGGGG GAGGGTCCCC 120
ACCTTCCTGT ACCTCCTCCC CACAGCTTGC TTTTGTGTGA CCGTCTTTCA ATAAAAAGAA 180
GCTGTTTGGT CTAAG 195
```

(2) INFORMATION FOR SEQ ID NO: 1639:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 194  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01854

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1639:

```
GATCTTAGCT TTGATAAATG ACTGANGCTG GAGAAGCCGT GGTTGAAGTC AGCCTACACT 60
ACAGTGCACA GTTGAGGAGC CAGAGACTTC TTAAATCATC CTTAGAACCG TGACCATAGC 120
AGTATATATT TCCCTCTTGG AACAAAAAAC TATTTTTCCT GTATTTTAC CATATAAAGT 180
ATTTAAAAAA CAAA 194
```

(2) INFORMATION FOR SEQ ID NO: 1640:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 268  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01855

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1640:

```
GATCTGAGTA ATTAGCAGGT ATGATGCTGG GACTGGAAAA TAGAAAGTAA TAACTAAAGG 60
GTTAATGTGC AACGTTATTT TTTGGCCTTG TTCATAATTT TATGTTTTCA GTGGCNTGTG 120
TACATATAGA ATTGTTAAAG TTGTCATTTT CAATATTTAT ATTAGAAAAA TTATTTAGAT 180
ACTTTATAAT TTAAACCGGC ATTTTAAATA ATGACACTTG CATTTATTGT ATTGTAATAA 240
ATTTCACTTT TAACTTTAAA AGTTTAAA 268
```

(2) INFORMATION FOR SEQ ID NO: 1641:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 193  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01856

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1641:

```
GATCTCTGCT CAGAGAAGTG CAGGGGGAGC CTTCCAGCTC ACTCTCCCTG AGGACTGGCT 60
TGACAGGGGC TATGGGTTTG CTTTGGTGTT GTTTTTAAAA AAAGAAAATA TATTTTTTTG 120
AAAAAACGAC TGCCCATCCC GGGTCCTTC CCTGATGGGT TGGGGCAGTT ACCTGGTTGC 180
```

TGTTTTAATT AAA

193

## (2) INFORMATION FOR SEQ ID NO: 1642:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 193
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01857

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1642:

```
GATCACATCA CTCCACCCCT GCCAGGCCCC AGGTTAGGAA TAGTGGTGGG AGGAAGGGGA 60
AAGGGCTGGG CCTCACCCTG CCCAGCAACT GAAAGGACAA CACTATCTGG AGCCACCCAC 120
TGAAAGGGCT GCAGGCATGG GCTGTACCCA AGCTGATTTC TCATCTGGTC AATAAAGCTG 180
TTTAGACCAG AAA 193
```

## (2) INFORMATION FOR SEQ ID NO: 1643:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 193
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01858

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1643:

```
GATCCTTAGT ACAACATGTG AAAGAAGATA TGTTGTCTTT ACTCACAGTG GAGGCATTTT 60
TCTAGCTGTG TTTGATTTGG CTTCCCTATA GATTCAGGAC CCATAACTCT TGTTCTCACT 120
CATCTGCTAT GCTGCTGATA AGGACTTTCA GGTCAACAGC TGTAAGTCT AAATGAAGTT 180
AATACTCTGG AAA 193
```

## (2) INFORMATION FOR SEQ ID NO: 1644:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 192
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01859

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1644:

```
GATCTAGGCA AACCTTTATA AAGTTGCAGT ACCTAATCTG TTATCCAC TTCTCTGTTA 60
TTTTTGTTG TCTTTTTTAA TATATAATAT ATATCAAGAT TTTCAAATTA TTTAGAAGCA 120
GATTNCTG TAGAAAACT AATTTNCTG CCTTTTACCA AAAATAAACT CTTGGGGGAA 180
GAAAAGTGGA AA 192
```

## (2) INFORMATION FOR SEQ ID NO: 1645:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 188
- (B) TYPE: nucleic acid

- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS01860
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1645:

```
GATCTGTCTG TTGCTTGTTT AATATATTTT TTTTATGACA TTAATAAGAG TTTAAAAGGG 60
TTTTNTATCC ACTGTCAATT TCAATTGGAT AACATTTTGT CAAGNTTTTT TTTTCTGAT 120
TATTTGATGC TAGCTGGAAT TCAAGAAATG GCATTGACCT TATTCAAATA AAGAAATATT 180
TTAGTAAA 188
```

## (2) INFORMATION FOR SEQ ID NO: 1646:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 190
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS01861
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1646:

```
GATCAAAAAC TAATTTGGGA TATGTATGGG TAGGGTAAAT CAGTAAGAGG TGTTATTTGG 60
AACCTTGTTT TGGACAGTTT ACCAGTTGCC TTTTATCCCA AAGTTGTTGT AACCTGCTGT 120
GATACGATGC TTCAAGAGAA AATGCGGTGA TAAAAAATGG TTCAGAATTA AACTTTTAAT 180
TCATTCGAAA 190
```

## (2) INFORMATION FOR SEQ ID NO: 1647:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 183
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS01862
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1647:

```
GATCAGTTGG GTGCTATGTG CTCAGCTTTC CTACTGCAGC TTCATTTAAT GCAGAGTGGT 60
GTTTGAATTT GGCTTAGATG GGCTGGCAGG CATGATTTTA AAAAATGTAA TCATCAGTAA 120
GAAGTACTTC CATGTAAAG ATGCAAAAAA AAAAGTCTTC ATTAAATTN CTATTTAANG 180
AAA 183
```

## (2) INFORMATION FOR SEQ ID NO: 1648:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 361
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS01863
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1648:

```

GATCCAAACA AATACACATT CTGTNTTTTA GCTCAGTGTT TTCTAAAAAA AGAAACTGCC 60
ACACAGCAAA AAATTGTTTA CTTTGTGGGA CAAACCAAAT CAGTTCTCAA AAAATNACCG 120
GTGCTTATAA AAAGTTATAA ATATCGAGTA GCTCTAAAAC AAACCACCTG ACCAAGAGGG 180
AAGTGAGCTT GTGCTTAGTA TTTACATTGG ATGCCAGTTT TGTAATCACT GACTTATGTG 240
CAAAGTGGTG CAGAAATTCT ATAAACTCTT TGCTGTTTTT GATACCTGCT TTTNGTTTCA 300
TTTTGTTTTG TTTTGTAATA ATGGTAAANC TTCAGAAAAT AAAATGTCAG TGTGNNTAA 360
A 361

```

## (2) INFORMATION FOR SEQ ID NO: 1649:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 183
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01864

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1649:

```

GATCAGGACC TGGGGGCC TA CAGTTCTGCC AGGAAGTGCC TGGCCAAACA GAGGCAGAGG 60
ATGCTGCAAG AGAGAAAAGC TGCAAAANAG GCCGCCGCTG CCACCTCCTG AGGCAGNTGT 120
GGGTGCCCCCT GCTGTGTGGC TCTGTATGAC TGTGTCTGAA ATATAAAGCC CTGCAACCTG 180
AAA 183

```

## (2) INFORMATION FOR SEQ ID NO: 1650:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 178
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01865

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1650:

```

GATCTCAGCA CAAGCAGGGG AGCAGCTGGG GGAACACAGC TTTATGTAAT TACCTCTGTT 60
CAATATTTAG CAAGTTGCAT TGTAACATTG TAACTGTTTG TTTCTCCTTG GATGATGAGC 120
TACCCCAAG AAGGGGTCAT ATCAGATTGG GTCTCATTAA AATGTCTGAT GAATGAAA 178

```

## (2) INFORMATION FOR SEQ ID NO: 1651:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 178
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01866

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1651:

```

GATCTATGGC TAAAAAATT TGTTTCTGTG ACAATNTTTG TAAATCTAGC CAATAGAGTC 60
ATTTACAGAA GAAAAATNAG CATGTAATAA TACAAGAACT GTTTCCTTCT CAAAACCTGA 120
ACCTGAATTA TTTGTAAAAA CTGAAATTTA ATGATTAAAG AGAAGCCAGA ATTGTAAA 178

```

## (2) INFORMATION FOR SEQ ID NO: 1652:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 189
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01867

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1652:

```
GATCTGGAGC TAATAATGAC TGAGATGGAG ATATCTCGAG CAGCAGCAGA ACGCAGTTTG 60
CGGGAACACA TGGGCAACGT GGTAGAGGCG CTTATTGCCC TAACCAACTG ATGCGTGCTT 120
TCTCAAATAT ACCTACTGGA TTAATTTATG GCAATAAAAT TTTTTTTTGT CTTTTTCAGT 180
TTTATCAAA 189
```

## (2) INFORMATION FOR SEQ ID NO: 1653:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 174
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01868

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1653:

```
GATCTCTGCT CTGCCCTCTC CCAGATTGGT GGGGAGGGAG GGCGGGAGGT AGATATAGGC 60
CTGTCCTTTT TAGCAATGTG ATTCTTGTG TTGATTCTCT CTCTGGAGTT CATGTGCTGC 120
CTCANNNGAC TCTGATTTTA TATTNAGAA AAATAAAGGC GTTCAATCTG CAAA 174
```

## (2) INFORMATION FOR SEQ ID NO: 1654:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 173
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01869

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1654:

```
GATCAGGCTC ATCTCATCTG CACCAACTGC TCTACCTGTT AGATGGAGAC CTTGCNTCAT 60
GAATTTCTCG AAATGCTCCT GGAAGTTATT TATATGCCTC AAAATCCTCT AAATCATT 120
ATAGTAACCC ATAGTTTTAA TTTTATAAAT AAACGTATTT ATTAAATCTT AAA 173
```

## (2) INFORMATION FOR SEQ ID NO: 1655:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 172
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01870

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1655:

```
GATCTCTAAT TTAAAGAAAC AGTTTTTATA TACCTAGAAT GAAGATTCTG TTAAAGCGG 60
TTTTGGTTAA CTTGGTTCTT GACATTTGCC TAAATNTTN TTGGATTGGG ACTAAATGT 120
NCTATTAGCC AATGAATAAC GTCCAAGTAA ATTTNTGTTT TATTTGGGA AA 172
```

(2) INFORMATION FOR SEQ ID NO: 1656:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 171

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01871

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1656:

```
GATCTCAAAG GAGTCTGAAA TATCATATTT CTGTGTGTGT CTCTCTCAGC CCCTGCCCAG 60
GCTAGAGGGA AACAGCTACT GATAATCGAA AACTGCTGTT TGTGGCAGGA ACCCCTGGCT 120
GTGCAAATAA ATGGGGCTGA GGCCCCTGTG TGATATTGAA AGGGTAAGAA A 171
```

(2) INFORMATION FOR SEQ ID NO: 1657:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 171

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01872

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1657:

```
GATCGNCATT ATCCCCAGNA AAAAGCTCCG. CAACAAGATA GCAGNTAATG TCACGCATCT 60
GATGAAGCGA ATTCAGAGAG GCCCAGTAAG AGGTATCTCC ATCAAGCTGA NCGAGGAGGA 120
GAGAGAAAGG AGAGACAATT ATGTTCTCTGA GGTCTCAGCC TTGGNNCCNN N 171
```

(2) INFORMATION FOR SEQ ID NO: 1658:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 171

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01873

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1658:

```
GATCAAAGAC ATCCTCATCC AGTATGACCG GACCNNCTGG TAGCTGACCC TCGTCGNTGC 60
GAGTCCAAAA AGTTNGGAGT CCTGTGCCCCG AGTTCGTACC AGAATCCACC GTAAGCCATC 120
GGNCTAAAAAC TTA CTTNATA ATAACAGTTT TGAGGGATTT AAAAGTTCAA A 171
```

(2) INFORMATION FOR SEQ ID NO: 1659:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 170  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01874
- (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1659:  
 GATCAAAAAT CCAAGGAGAA TGGTGCCAGT GTATGATAAA ATCCATGTAG TGATGAGGAA 60  
 TGGTGTTAAA TAATGTAATA TATAANANTC ATGATATANG ANTGTTTGAA GGTGATGCAT 120  
 GTTTGATTTT NGTAGTATAA NTGTATTTNA GTTCAAATGA TGTATAANGN 170
- (2) INFORMATION FOR SEQ ID NO: 1660:
- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 167  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01875
- (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1660:  
 GATCCTCGCT CCGTTGCACG GGCGCCNTAA GTTATTGGAC TATCTAATAT CTATGTATTT 60  
 ATNTCGCTGG TTCTTTGTAG TCACATATTT AATAGTCTTA ATATCTTGTT TTTGCATCAC 120  
 TGTGCCCAT T GCAAATAAAT CACTTGGCCA GTTTGCTTTT CTACAAA 167
- (2) INFORMATION FOR SEQ ID NO: 1661:
- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 167  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01876
- (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1661:  
 GATCTGGGCG ATTCTGAAGC CATGCCATTT TTAACCTTAT GTCTGCTAGA AAGTGTTGTA 60  
 GTTGATTGAC CAAACCAGTT CATAAGGGGA ATTTTTTTTA AAAACAACA AAAAAAAAC 120  
 CATCCAAGGN NGGTTTNTG ATTAAATTTT GTGGNGTTAC CAGTAAA 167
- (2) INFORMATION FOR SEQ ID NO: 1662:
- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 165  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01877
- (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1662:  
 GATCTTCCCC AAGAGGGACT GGGGTTTCTG GGTCCATTC TCTGAGTCAG TGGTTATTTG 60  
 AAAATTTGAT TTTGATTTTA TTTTCTCT GTAACTTCC AAGCTGGCTT TTCCATTTC 120  
 AATTCCTGTG ATTTATGCCA ATAAAGTTTG CCCATGATTT TCAA 165

(2) INFORMATION FOR SEQ ID NO: 1663:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 165  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01878

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1663:  
 GATCCCTNCC TTGGTGGGCA GTTCTGCCTT CCAAGGAAGA AGGGGAAGAA AAGGACCTGT 60  
 GGGTGGCTCA GGNCAAGCA GACCCCGGGC TCCACCCAG CCCCNGCCAG GNTGCTGCCA 120  
 GTNCACACTT TTACAAATTT AATATAAAGC AAGTCCAGTN TAAA 165

(2) INFORMATION FOR SEQ ID NO: 1664:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 161  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01880

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1664:  
 GATCAGGCTG CTGAGGGAAT AAATTTAATC AAGGTCTTTG CAAAAACAGA AGCACAGAAG 60  
 GGAGCCTATA TAGAACTAAC ACTGCAGACT TATCAAGAAG CACTCAGTCG CCATTCTGCA 120  
 GCTTCCTAAA AATATTTTAA AAATACATTT ATTTTACTAA A 161

(2) INFORMATION FOR SEQ ID NO: 1665:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 158  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01881

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1665:  
 GATCAGTCCA TCCCAGAGGG ACCGGAGTTA TGACAAGCTT TCCAAATATT TTGCTTTATC 60  
 AGCCGATATC AACACTTGTA TCTGGCCTCT GTGCCCCAGC AGTGCCTTGT GCAATGTGAA 120  
 TGTGCGCGTC TCTGCTAAAC CACCATTTTA TTTGGAAA 158

(2) INFORMATION FOR SEQ ID NO: 1666:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 158  
 (B) TYPE: nucleic acid



(C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01882  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1666:  
 GATCGTGTAT TGAGATTTCT TAAATAATGC TTCAGATATT ATTGCTTTAT TGCTTTTTTG 60  
 TATTGGTTAA AACTGTACAT TTAAAATTGC TATGTTACTA TTTNTACAA TTAATAGTTT 120  
 GTCTATTTTA AAATAAATTA GTTGTTAAGA GTCTTAAA 158

(2) INFORMATION FOR SEQ ID NO: 1667:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 155  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01883  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1667:  
 GATCTTTGTT AGTTGCATAT TATATTTTCTG TGTATATCTT CTTGGTGAAT TGACCCCTTTT 60  
 ATCATTATGT AATTCCCCTA TATTTATATC TTTATATTTA ANATAGGTTT CCTTAACATT 120  
 TGAGAAGTAA AANTAAATA AAATGTAATA GCAAA 155

(2) INFORMATION FOR SEQ ID NO: 1668:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 155  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01884  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1668:  
 GATCACTCTG GGCTCACTTG CCTGCCTAAT GGTCATCTCC CCAGTAGACT GTAAGCTCCT 60  
 TGAGGGCAAG GATTGTGTTG GAATTTTTGT ATTAACAGTG CCTGGCTTGG TGCCTGGCAC 120  
 CTAGAAAGCA CTCAATAAAT GTTTGTTTAA TGAAA 155

(2) INFORMATION FOR SEQ ID NO: 1669:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 161  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01885  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1669:  
 GATCAGATGC TTGAAATTTA ACACTTTTCA CTTGGTTCTT ATACTGAATG CCGACTCTGC 60  
 TCTGTGTTAG AGATATGAAA TGGTGTGTTA TACTGTTTGA GACATTATGG AGAGATTTAA 120

TTATTTGTAA TAAANGNTTT GCTGCAGTCT GAAAAC TGAA A

161

(2) INFORMATION FOR SEQ ID NO: 1670:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 153
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01886

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1670:

GATCTATTGT AATGTGTTAT TTNGGCTGAN GTATGTNAAG AAAATACTAC CTTACAAAGN 60  
 TATGTATTNT CAAAAGGAAA TACATATCAG AAAGTTTAAC AGGGCCAGTG GGTGATACTG 120  
 AAGTTGTCGG GATGGATGGT GTCTATCTGG NNN 153

(2) INFORMATION FOR SEQ ID NO: 1671:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 444
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01887

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1671:

GATCTAGAAG TTTTACTTTT ATAAAGATGG TGTCCGGAAG ATGTTGCTAA TGTATTTTAC 60  
 TTCAACATAG GGAACAAACT TTTTAAGTAT ATTAATAAAC CTGTATGGTT AGTTTTTAAC 120  
 AGTTTTTTAA AATAAACTAT GGATATGACA AATATTCTGT GTTTTACTAA GTGCTTGGAT 180  
 AGGCTTTCTA ATTTNGTATA CGTGCTAGAG TTAATTATTG ANCATTTTTA TCCAAATTTA 240  
 GTTGTAAGTC TGTTTATACT ACTGATTGCT CATTCGTTTA AATGATATTN TNNNGTAAAA 300  
 GTCATAACCA ACATATGANC AGACAGATTT ATGTCTTTAA ACACAGATTG TNAGCTATAG 360  
 GTTTAATCTG ATACCAGTTG CTGGAAGGTT GCCATTTGGT TTTTCTNAAA ACCTATACCN 420  
 CTAAAACTTT CTTTNAAGGT TAAA 444

(2) INFORMATION FOR SEQ ID NO: 1672:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 151
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01888

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1672:

GATCAGCAGC CCTCGCAATG TGCTCAGCGA GTACCAGCAG AGGCCGCAGC GGCTGGTGAG 60  
 CTAATTCATC AAGAAGAACT GAGCAAGGCC TGAGCGCTGC CTGAACTCCG AAGNCCTGTG 120  
 TGATGCTTTC CATTAAAAAN NATTGTCCAA A 151

(2) INFORMATION FOR SEQ ID NO: 1673:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 150  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01889  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1673:  
 GATCCAGATG ATAAACCAGT GAACTATGTC AAAAGCACTC TCAATATTAC ATTTGACAAA 60  
 AAGTTTTGTG CTTTNCACAT AGCTTGTTGC CCCGTAAAAG GGTTAACAGC ACAATTTTTT 120  
 AAAAATAAAT TAAGANGTAT TTATNGGAAA 150

(2) INFORMATION FOR SEQ ID NO: 1674:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 148  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01890  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1674:  
 GATCCGNCCG TCTCTGCCTT CCAAAGTGCT GGGATTACAG GCGTGAGCAC ATCTGCCCCG 60  
 CTTATTTTTT TTTATGTTTT TNCTTCGTAA GAGGTTCTGT TGAGCAGTGA TTTGCAACTC 120  
 TTGCTGACGT TGCTGGGGAA GCTTTAAA 148

(2) INFORMATION FOR SEQ ID NO: 1675:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 568  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01891  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1675:  
 GATCTACCCC AGGGAGAATC TGAGACATCT TGCCTACTTT TCTTTATTAG CTTTCTCCTC 60  
 ATTCATTTCT TTTATACCTT TCCTTTTTTG GGAGTTGTTA TGCCATGATT TTTGGTATTT 120  
 ATGTAAAAGG ATTATTACTA ATTCTATTTT TCTATGTTTA TTCTAGTTAA GGAAATGTTG 180  
 AGGGCAAGCC ACCAAATTAC CTAGGCTGAG GTTAGAGAGA TTGGCCAGCA AAAACTGTGG 240  
 GAAGATGAAC TTTGTCATTA TGATTTTCATT ATCAGATGAT TATAGAAGGC TGTCTTAGTG 300  
 CAAAAACAT ACTTACATTT CAGACATATC CAAAGGGAAT ACTCACATTT TGTTAAGAAG 360  
 TTGAACTATG ACTGGAGTAA ACCATGTATT CCCTTATCTT TTAATTTTTT TCTGTGACAT 420  
 TTATGGTCTC ATGTAATTTG CATTACTCTG GTGGATTGTN CTAGTACTGT ATTGGGCTTC 480  
 TCGGTAATAG GTTATTTCCA TATACTATAA TTGGNAATAT TTTTGTACCA ATGGTTATAA 540  
 CNCTAGGGGT NTAAAAACCA GGTTCTGN 568

(2) INFORMATION FOR SEQ ID NO: 1676:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 146  
 (B) TYPE: nucleic acid

(C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01892  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1676:  
 GATCTCTAAG GTATTATGTT TGCCTTCTCT TAGTTATTTT TGGGTTGTCA CAAAGCTCAG 60  
 TATCATGGTT TGACAGAAGC AGTTATGTGA ACTTTTATGT TAGGACATTA CTAAATAAAG 120  
 AATTCCCTAG CTGCTTATAA AGTAAA 146

(2) INFORMATION FOR SEQ ID NO: 1677:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 144  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01893  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1677:  
 GATCCATTCT CCNTTTANTT CCCCCACCCT CCTCTCTNGG ATATGGTTGG NTTTGGCTCA 60  
 TTTACAATC AGCCCAAGGC TGGGAAAGCT GGAATGGGAT GGGAACCCCT CCGCCGTGCA 120  
 TCTNAATTTN AGGGGTCATG CNCN 144

(2) INFORMATION FOR SEQ ID NO: 1678:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 151  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01895  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1678:  
 GATCGAGATG AGCTTTAAAA ACTTGAAAAA CAGTTTGTA GCTTTTCAAC AGCAGCATCA 60  
 ACCTACGTGG TGGAATAGT AAACCTATAT TTTTATAATT CTATGTGTAT TTTTATTTTG 120  
 AATAAACAGA AAGAAATTTT GGGTTTTTAA A 151

(2) INFORMATION FOR SEQ ID NO: 1679:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 140  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01896  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1679:  
 GATCTTGATG GTCGCTGCAG AGTAACTTCA GCGCTGAGTT CGTTTGAAAC CTTGGGTTTG 60  
 TTAAGATTCA GAATAACCAA TTGCTTTGTC TGTAAATCT CCCGATTCT GTTAGGAAAA 120

TAAAAGCCTC ATTTCTTAAA

140

## (2) INFORMATION FOR SEQ ID NO: 1680:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 139
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01897

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1680:

GATCACTATG TAGGCAATGC TGGATACTGG NCTGTTATTT ACACATTTGT ATCACCTTTT 60  
 ATTTTCATAAG ATAGCATTGT CAGANTAATT TAGTATTTC AATAATCAA CAAGTAAAAT 120  
 AAAATTAATG AGAATGAAA 139

## (2) INFORMATION FOR SEQ ID NO: 1681:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 139
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01898

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1681:

GATCTCCACA TTCAGGTTTC CTGATGCACT TTNCGACTCT TTGGGCAACC TCTGGACTCC 60  
 TTGTNCCAG GGTCCACATT TAGTTTTATC TTTACTGCAT TGCTTTTATG AAAAAGAATA 120  
 AAATTGGATG AAACAGAAA 139

## (2) INFORMATION FOR SEQ ID NO: 1682:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 143
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01899

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1682:

GATCAGTTAA TTTGTATGTA GCAGTGTATG CTCTCATATA CAATNACTGA CCTATGCTCT 60  
 AAAACATGAA TGCTTTGTGA CAGACCCAAG CTGTCCATTT CTGTGATGGG TTTGAATAA 120  
 AGTATTCCT GTCTTAAATG AAA 143

## (2) INFORMATION FOR SEQ ID NO: 1683:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 136
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01900

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1683:

```
GATCGAATCA CCTGAATGTT CTATGTANTG TAAAATATTC TTTTCTTGCT TTCTTGTTGTT 60
AAGGTATATA TTCTATTTGT ATGGAATTCT TATTCAAATA CAGTTCTATT AAAGAGTATA 120
CTCCTATTGG ATGAAA 136
```

(2) INFORMATION FOR SEQ ID NO: 1684:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 136

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01901

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1684:

```
GATCTCAGCG GCATTAAGCT GTGCCTGAGC GAGTTTGTAG TGACTCACTG CACAGCACCN 60
CCAGACTAGC ATGTGGTTCT ATATTTGTAA AGTTATTGGG ATAAGAAACA ATTAAACAGT 120
TTGTAGTAAA CACAAA 136
```

(2) INFORMATION FOR SEQ ID NO: 1685:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 136

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01902

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1685:

```
GATCTTCTAC TTCCCTNTGG GGAGGGGAGT GACAGGTCCA CACACCACAC TGGGTCACCC 60
TGTCCTGGAT GCCTCTGAAG AGAGGGACAG ACCGTCAGAA ACTGGAGAGT TTCTATTAAA 120
GGTCATTTAA ACCAAA 136
```

(2) INFORMATION FOR SEQ ID NO: 1686:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 135

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01903

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1686:

```
GATCTTTAAA AAAATTTTCC ATATGTCAAA GTGTAGAGAT GTTTCTAGCA GCATTTATCT 60
TGTCATCTAT AGATTGAACA AAAAGTGGTA GCTGTNAAAT TGTGATTAT AATAAATACA 120
TATTGGTCT TCAAA 135
```

(2) INFORMATION FOR SEQ ID NO: 1687:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 135  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01904  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1687:  
 GATCAGCAGT TCCAGCCCCT ACGCTNGCTG GGGGCGCAAC CACCCCTTCC TTAGGTTGAT 60  
 GTGCTTGGNA AAGCTCCCTC CCCCTCCTTC CCAAGAGAG GAAATAAAAG CCACCTTCGC 120  
 CCTAGGGCCA AGAAA 135

(2) INFORMATION FOR SEQ ID NO: 1688:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 136  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01905  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1688:  
 GATCTTCATC TGTAGCCAAG AAGAGAGCAT TAAACCCAAG ANCATTGTGG AGAAGATTGA 60  
 CTTTGACAGT GTGTCCAGCA TCATGGCCTC CTCCAGTAA CTTCAGGTGT TTAATAAAGA 120  
 TGTGTTGACT CAGAAA 136

(2) INFORMATION FOR SEQ ID NO: 1689:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 134  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01906  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1689:  
 GATCTTAATG TTTCAAAGGA GTGCAGCCCT TCACAGCCAT CAGATATGAG GGCAGTGTTC 60  
 TGTCTGGTGT TGTAGCCATC TCAAGAACA ATCAACAGCA ACAAAGAGA AAGAATAAAT 120  
 TTTTAAAATT TAAA 134

(2) INFORMATION FOR SEQ ID NO: 1690:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 134  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01907  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1690:  
 GATCTGTGAC CCTGGGCGCT GAAAATGGGA CCCAGGAATC CCCCCGTCA ATATCTTGGC 60  
 CTCAGATGGC TCCCCAAGGT CATTATATC TCGGTTTGAG CTCATATCTT ATAATAACAC 120  
 AAAGTAGCCA CAAA 134

(2) INFORMATION FOR SEQ ID NO: 1691:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 134  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01908

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1691:  
 GATCTCTACT ACCACAAGGA AAATAGTTTA GGAGAAACCA GCTTTTACTG TTTTNAAAA 60  
 ATTACAGCTT CACCCTGTCA AGTTAACAAG GAATGCCTGT GCCAATAAAA GGTTCCTCCA 120  
 ACTGAAGTC TAAA 134

(2) INFORMATION FOR SEQ ID NO: 1692:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 140  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01909

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1692:  
 GATCAGTGTG GAGGACCCGC CCCAGCGCAC GGCCGGCGTC AAGGTGGAGA CCACTGAGGA 60  
 CCTGGTGGCC AAGCTGAAGG AGATTGGGCG GATTTGAGCC CCTCCCAGAG ATGGCAATAA 120  
 AACTGACTCT CAACATCAAA 140

(2) INFORMATION FOR SEQ ID NO: 1693:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 133  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01910

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1693:  
 GATCTAACCT TTGANGCTTT AAAAAAGGAG AAAGAGGGTA GGGGTGGGAA ACTGGCATACT 60  
 TGTGTGTATA GCACTGCCGA TTGGCTAGGC CACTGTGTCT CTGCTACAAA TTAAAGAAAT 120  
 CCTAAAAGTT AAA 133

(2) INFORMATION FOR SEQ ID NO: 1694:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 133  
 (B) TYPE: nucleic acid



(C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01911  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1694:  
 GATCGCGAAT AAAAATCAAC AAATGTGAAA GCCCAGAAAA ATATATTCGT ATTTCTGGTT 60  
 TTGCTGGATT TTTACATTTT TATATAATAA AAATGNTATT TTGAAATAAA GATTATGCTG 120  
 ACTCAAATGC AAA 133

(2) INFORMATION FOR SEQ ID NO: 1695:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 131  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01912  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1695:  
 GATCTATTGC AGATATTTGA TGTAGTTTTT TCTTTTAAAT TAATCAGAAA CCCCCTTCC 60  
 ATTGTATTGT CTGACACATG CTCTCAATAT ATAATAAATG GGAAATGTCG ATTTTCAATA 120  
 ATAGACTTAA A 131

(2) INFORMATION FOR SEQ ID NO: 1696:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 130  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01913  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1696:  
 GATCCGCCCG GCTCAGCAGA ATTCACGCTC CTGTATGCCT CAGCCCCTCG ATATAACTCC 60  
 ATCGGATTCT AGCAGCCTGG TATTCTAGCA ATAAAACCCA AGGCCTGAGA AACAGGGGCC 120  
 ATCCTGCAAA 130

(2) INFORMATION FOR SEQ ID NO: 1697:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 130  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01914  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1697:  
 GATCAGACTG TCACTTTATA GTTTTTCTAT ATAAAGATTA TATAGTTGCA AACAAAGGTT 60  
 GTGAAATTTC CCTTTGTTG TTTTNNACTT TTAATTAATA AAAGTACATT GTTTTCATAG 120

CAAACCTTAAA

130

## (2) INFORMATION FOR SEQ ID NO: 1698:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 130
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01915

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1698:

GATCGAAGCT ACCGTAATGT GTTCTTGAGG TCAACATGTT TTGTGGAAGT CACTGTATTT 60  
 GCCCCNTTAT GTCAATTACC TATTATAAAC CGAGAGAAAT GGGAAAATTA AAAACCTGTT 120  
 TTGAATTAAA 130

## (2) INFORMATION FOR SEQ ID NO: 1699:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 129
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01916

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1699:

GATCCCTTGT AAACATGAAA TCATTCCATG GATGGCTGCC TTATAATTTT GTCTCTTTCC 60  
 ACTTTAATTG TGAATGGTTA AAAAAATGCT GTTTTCTGAT ATTAAATTTT TATTAGTGCA 120  
 TACCTTAAA 129

## (2) INFORMATION FOR SEQ ID NO: 1700:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 82
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01917

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1700:

GATCTGTACC TAGTACCCCT CCCATCTACT GATTTGTTTG TTTTGTAAAC CAAACACATT 60  
 TTCAGATAGA AGGAGCCTTA AA 82

## (2) INFORMATION FOR SEQ ID NO: 1701:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 128
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01918

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1701:

GATCCCCTAT TCCCTCCACA ATAACAGAAA CACTCCCAGG GACTCTGGGG AGAGGCTGAG 60  
 GACAAATACC TGCTGTCACT CCAGAGGACA TTTTTTTGTAG CAATAAAATT GAGTGTCAAC 120  
 TATTTAAA 128

## (2) INFORMATION FOR SEQ ID NO: 1702:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 137  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01919

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1702:

GATCTACAAT NAAGCCCTCA AGGGCTGAAA ATAAATAGGG AAGATGGAGA CACCCTCTGG 60  
 GGGTCCTCTC TGAGTCAAAT CCAGTGGTGG GTAATTGTAC AATAAATTTT TTTTGGTCAA 120  
 ATTTAAAAAA AAATAAA 137

## (2) INFORMATION FOR SEQ ID NO: 1703:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 128  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01920

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1703:

GATCTGAGGA GGAAATGTGA CGCCGGACGC TTCNTGTNT TTGACCTTTT NAAAGGANGA 60  
 GGAAGTTCAC CGACANTACC CATCACCCAC AAAAGTCTCA CTTCTTGGA GATTTGTGTT 120  
 AGGCTGNN 128

## (2) INFORMATION FOR SEQ ID NO: 1704:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 127  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01921

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1704:

GATCTGGCGT NCTACTATGA GGCTTCTTTT GACCTCATTN NTGTGGTNGC CGGCGTAGCC 60  
 AGACCATCCT ATACTGTGAC TACTTCTACT NGTACATTAC AAAAGTACTC AAGGGAAAGA 120  
 AGCTCNN 127

## (2) INFORMATION FOR SEQ ID NO: 1705:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 146  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01922  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1705:  
 GATCATAGCT ACACTGTATG TTTAGGTGGT GTGAAATNAT TTATAATCAC AGCTTGA ACT 60  
 GTGTTTGCTT GGTACTGTCA TAGTGATTAC AAATTTTCATG GAATGCGAAG AGCAACAATA 120  
 AATAAAAAAT ACCACTCACC CTCAAA 146

(2) INFORMATION FOR SEQ ID NO: 1706:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 240  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01923  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1706:  
 GATCAAAAAG GACTGAACCC CCACTATCAT AATCCATACA TTCATTTCCA TGTTGTTTGA 60  
 CTAGCAGTGC ATATATGAAT GAATATGGTA ATTAATCTTA CCTATAAGAA CCAAATACTT 120  
 TAATTATATT AAGATAGTGA ATAAAGATGT ATAATATTTT NATTAATACC TTGAATATAT 180  
 TCAGTGGATT GAATGTGACT TCATAACTGT ACTACGATTG TATTAAAATA TTTCTGGA 240

(2) INFORMATION FOR SEQ ID NO: 1707:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 124  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01924  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1707:  
 GATCTTATGA AGGAAGATTT GTGACCCTAC GTATATATAT ACACACACAT ACATATATAT 60  
 ATATATCCCG AACCAACANC GGGACTTTGT TTATATTGCA AATAAATATT ATTTTTCCTT 120  
 TAAA 124

(2) INFORMATION FOR SEQ ID NO: 1708:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 124  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01925  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1708:  
 GATCCCCTTT CTCTATGTCG GGACACTCAT TAGCAAGAAC TTNCTGCTC TACTNGAGGN 60  
 ACATGACATT TTTGTTCCAG AGGATGATGA TGATGATGAC TAACAGGAAT TACAGAANGN 120  
 NGAN 124

(2) INFORMATION FOR SEQ ID NO: 1709:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 146  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01926

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1709:  
 GATCCGAGCA GTCCTCTGCC CGCCTCCCGT GAAGAAGAGG AAGAGAAAAT GCCTGCTGTT 60  
 GTAAATGTCT CAGCCCCTCG TTCTTGCTCC TGTCCCTTGG AACCTTTGTA CGCTTGCTC 120  
 AAAAAAAAC AAAAAAAA AACAAA 146

(2) INFORMATION FOR SEQ ID NO: 1710:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 120  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01927

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1710:  
 GATCCTGTGT AGAAGCTGTT CTCATTAAAC ACCAAACAGT TAAGTCCATT CTCTGGTACT 60  
 AGCTACAAAT TCGGTTTCAT ATTCTACTTA ACAATTTAAA TAACTGAAA TATTCTAAA 120

(2) INFORMATION FOR SEQ ID NO: 1711:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 121  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01928

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1711:  
 GATCTGCGCC TCTCAGTGCC TTTTGAGGGG TTCCCATCAT CCCTCCCTGA TATTGTATTG 60  
 AAAATATTAT GCACACTGTT CATGCTTCTA CTAATCAATA AACGCTTTAT TTAAAGCCAA 120  
 A 121

(2) INFORMATION FOR SEQ ID NO: 1712:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 125  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single

(D) TOPOLOGY: linear  
(vii) IMMEDIATE SOURCE:  
(B) CLONE: HUMGS01929  
(ix) FEATURE:  
(D) OTHER INFORMATION: "N"=unidentified base  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1712:  
GATCGGGGCA AGAGAAGGCT GAGTACGGAT GGGAAACTAT TGTGCACAAG TCTTTCCAGA 60  
GGAGTTTCTT AATNAGATAT TTGTATTTAT TTCCAGACCA ATAAATTTGT AACTTTGCAG 120  
CGAAA 125

(2) INFORMATION FOR SEQ ID NO: 1713:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 338  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear  
(vii) IMMEDIATE SOURCE:  
(B) CLONE: HUMGS01930  
(ix) FEATURE:  
(D) OTHER INFORMATION: "N"=unidentified base  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1713:  
GATCAGCCCA TCTCAGCTTG CTGTTTCAAT CACAATGGAA ACATATTTGC ATACGCTTCC 60  
AGCTACGACT GGTCAAAGGG ACATGAATTT NATAATCCCC AGAAAAAAN TTACATTTNC 120  
CTGCGTAATG CAGCCGAAGA GCTAAAGCCC AGGAATAAGA AGTAGTGGCT GGAGACTCTG 180  
GCTCAGCCAG AGTTGTTTCT CTCCANTCTG CCTCATCTCT GTACGANTTT GGGTCCCAGC 240  
CTTGTTGGGT TGTCAGCCAT GGACATGGAT TTCAACCCCT GGAGAAAACG NTGTCATTGT 300  
TCAGCAGCTG AGNGCCCCAG GCGTCCGNGG CGNCTTTN 338

(2) INFORMATION FOR SEQ ID NO: 1714:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 85  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear  
(vii) IMMEDIATE SOURCE:  
(B) CLONE: HUMGS01931  
(ix) FEATURE:  
(D) OTHER INFORMATION: "N"=unidentified base  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1714:  
GATCCCATAT CTATTACCGT GTCCATAGGA ATAATAGGTA AGGGCTCTGT CTCTGTCAAG 60  
CCATGTAACA AAGGACACTG TTAAA 85

(2) INFORMATION FOR SEQ ID NO: 1715:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 260  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear  
(vii) IMMEDIATE SOURCE:  
(B) CLONE: HUMGS01932  
(ix) FEATURE:  
(D) OTHER INFORMATION: "N"=unidentified base  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1715:  
GATCCAGCCC TGGTTCTGGC TGTGGTCAGC AGATGCCAGT NAAGGGTTTT GTGTGTTTAG 60

```

GCCTCATTTC TTTGTCTTTT TCCTACTCCG TTCCTGGCAT TTGCTGATTT CTAGTGTATA 120
CTCTGTAGTC TCAGTTCGTG TTTGATTCCA TTCCATGGAA ATAAAAAGTA TGTGTACAT 180
ACTGCCGAAG AATTGTCTTG CAAGTNAAGG CTTCCCCCTT TACTATAAGA CTATAAATAA 240
AANCTTATTT NATCCNNAAA 260

```

## (2) INFORMATION FOR SEQ ID NO: 1716:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 430
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01933

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1716:

```

GATCTTGTGC TGTGCTATCC GCAGAACCGC GAGATGGTCT AGAGTCAGCT TACATCCCTG 60
AGCAGGAAAG TTTACCCATG AAGATTGGTG GGATTTTTTG TTTGTTTGTT TTGNTTTGTT 120
TGTTGTTTGT TGTGTTGTTT TTTGCCACTA ATTTTAGTAT TCATTCTGCA TTGCTAGATA 180
AAAGCTGAAG TTTACTTTATG TTTGTCTTTT AATGCTTCAT TCAATATTGA CATTTGTAGT 240
TGAGCGGGGG GTTTGGTTTG CTTTGGTTTA TATTTTINCA GTTGTTTGTT TTTGCTTGTTN 300
ATATTAAGCA GAAATCCTGC AATGAAAGGT ACTATATTTG CTAGACTCTA GACAAGATAT 360
TGTACATAAA AGAATTTTTT TGNCTTTAAA TAGATACAAA TGTCTANCAC CTTTAATCAA 420
GTTGTACCTN 430

```

## (2) INFORMATION FOR SEQ ID NO: 1717:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 171
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01934

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1717:

```

GATCGAGCCA CTGCGCTCCG GCCTGGGTGA CAGGAGACTC CATCTCAAAA AATAAAATTA 60
AAAAAAAAAC TACTACAATA AATTATCACC TTGGACTGTA TAAACAACCT TTNAACTAG 120
TCTTTTNAAA AAGTACACTT AAATAAAAAT CTAANCATAA GNGANTGTAA A 171

```

## (2) INFORMATION FOR SEQ ID NO: 1718:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 115
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01935

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1718:

```

GATCGCTCAG AAAATGGGAA CCCAGGGCAA ATTGTATGTG CTCCTTACTG GGTTTATTAT 60
AAGTGTACACA TGTTTTTTTAT AATAAACAT AGGTGATTTC ACCTTAATGG ACAA 115

```

## (2) INFORMATION FOR SEQ ID NO: 1719:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 115
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01936

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1719:

GATCCTCCCA CCTCAGCCTC CTGAGTAGCT GGGACCATAG GCTCACAACA CCACACCTGG 60  
 CAAATTTGAT TTTTTTTTTT TTTCCAGAGA NGGGGTNTTG NANCATTGCC CAGNN 115

## (2) INFORMATION FOR SEQ ID NO: 1720:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 115
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01937

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1720:

GATCTAGCAC TTTACAAAGT AAGTTTTTCT GTNACTTAGA GCTGAAAATA AAAGCAATGT 60  
 AGAGTTACGC TTTTATAAGT ATTTNANGTT TCANAAATNA TGCATACAGC AATTN 115

## (2) INFORMATION FOR SEQ ID NO: 1721:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 114
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01938

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1721:

GATCATTTAG TTCTATCTAT TTAGAAATAT GTAAACTGG ATTTTTTTTT AAGTAATATG 60  
 TGACCAAAGT TAATTTTGTC CCAAAGGTCT AAATAAAGAG CAGTTTCCCA TAAA 114

## (2) INFORMATION FOR SEQ ID NO: 1722:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 119
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01939

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1722:

GATCGCCACA GCCCTTCTTG GAAGAAAGGC GTCTGTGTTT CAGGTTCCAC GCGAGTCACC 60



TCTTTCGTCT TAATGTTTAC CGTCCACAGC TTTGGAATAA ACCATCCTGG GAAGTTAAA 119

(2) INFORMATION FOR SEQ ID NO: 1723:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 113
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01940

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1723:

GATCTTTGAC TGTATCATGC ATTGTACAAT TGATTTTATA TTTTATGAAA TGCCTTAATT 60  
TTCCTACTAT AACATAAAGA CAATGATGAA TAAAGTTTAT GTGTATGATT AAA 113

(2) INFORMATION FOR SEQ ID NO: 1724:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 113
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01941

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1724:

GATCAGAAAC ATACATACCC TNCCTAGGGA TTTAGAAAGT GGGTTGGCAG TCTTTCCTCA 60  
CGTCCATCAC GCANTTGGNA CCTACTNCAG TGTATTGTAA ACTTTTTTCT CNN 113

(2) INFORMATION FOR SEQ ID NO: 1725:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 111
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01943

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1725:

GATCCCAGAG GTCANGACCA AANCCAATCA GTGAAAATTC AACTNTAGCT GTGAAAACAT 60  
TGCACTAACA GGAGCTATCC AACAATGGAC CAGAATGTTG ACAATAAAGT N 111

(2) INFORMATION FOR SEQ ID NO: 1726:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 113
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01944

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1726:  
 GATCCCGCAG GTGGCACGTG ACAGCTAGGG TTCAAAACGT TCTCACCAAA TCCAATGCTC 60  
 CTCACATATT AATTTTATAA CCAGACAAAT AAATATTAGA GACAACCACC AAA 113

(2) INFORMATION FOR SEQ ID NO: 1727:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 109
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01945

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1727:  
 GATCTCAAAA TTCCAGAATT CCCTGTACAT CTNTCCACGT GCTTGTGCTC CAGGTGTGAC 60  
 TTGTAAACTG TCTAGTGTTT GCNTTAAATA AAATGGCACC GAGCATAAA 109

(2) INFORMATION FOR SEQ ID NO: 1728:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 329
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01946

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1728:  
 GATCCGTATC GGTTTAAGAA GCGGACGGAG CTGTTTCATTG CCGCCGAGGG CATTACACAG 60  
 GGCCAGTTTG TGTATTGCGG CAAGAAGGCC CAGCTCAACA TTGGCAATTT GCTCCCTGTG 120  
 GGCACCATGC CTGAGGGTAC AATCGTGTGC TGCCTGGAGG AGAAGCCTGG AGACCGTGGN 180  
 AAGCTGGCCC GGGCATCAGG GAACTATGCC ACCGTTATCT CCNACAACCC TGAGACCANG 240  
 ANGACCCGTG TGNAGNTGCC CTCCGANTCC AAGANGGTTA TNTCCTNAGN CATCAGNGCT 300  
 GTGGTTGGTG TGGTGGCTGG NGNTNGNCN 329

(2) INFORMATION FOR SEQ ID NO: 1729:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 109
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01947

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1729:  
 GATCTGTCAA TTTCTTTGTN CAGAATGATT TGAAGTATTG TATTGAGTTT ACATGCATTA 60  
 TTGGNTTATA ATNAATATCT AATGAAAATA CATGTTGTTA TATTGTAAA 109

(2) INFORMATION FOR SEQ ID NO: 1730:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 215
- (B) TYPE: nucleic acid

- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS01948
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1730:

```
GATCAGCTGA TGGAGCTCCT GATTTGACAA AGGAGCTTNC CTCCTTTGAA TGACCTAGAG 60
CACAGGGAGG AACTTGTCCA GTAGTTTGGA ATTGTGTTCT TCGTAAAGAC TGAGGCAAGC 120
AAGTGCTGTG AAATAACATC ATCTTAGTCC CTTGGTGTGT GGGNNNTTTG TTTTTTTTTT 180
ATATTTTGAG AATAAAACTT CATATAAAAT TGAAA 215
```

(2) INFORMATION FOR SEQ ID NO: 1731:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 107
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS01949
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1731:

```
GATCGCACCG CCCCTCGCAG AGAGTGTATC ANCTGTTTTA TTTTGTAAA AACAAAGTGC 60
TAAATAATAT TNATNACTTG GTTTGGTTNC AAAANCGGAT TAAATGN 107
```

(2) INFORMATION FOR SEQ ID NO: 1732:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 107
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS01950
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1732:

```
GATCACTGTG GTNTTCATAT TTCTAAAATA AATGAATTAA AAANTTTAAN GNCTTAGATG 60
CTTATCTCTA TCATAGCTCA GAATGCAACT NCAATACCCC CATTCTN 107
```

(2) INFORMATION FOR SEQ ID NO: 1733:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 106
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS01951
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1733:

```
GATCAACTGT ACGCCTTTGG TATCTGACCA TAAAGTCTTT TGCTCCGCTG ACATTGGGGT 60
GATGTCTTCA CATGGAAATA TAATAAAAT AAAAATCTAG TTAAAA 106
```

## (2) INFORMATION FOR SEQ ID NO: 1734:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 106
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01952

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1734:

GATCGAGGCT TCAGTGAGAT ATGGCTGAGA CACTGCTCTC AGCCTGGATG ACAGAGTGAG 60  
 AACCTGTCTC AAACAAGAGA AAAAAATAAA TCAAANNCTA TTCAAA 106

## (2) INFORMATION FOR SEQ ID NO: 1735:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 151
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01953

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1735:

GATCTGAGGA GGCTTCGTGG GCTTTTGGGT CCTCTAACTA GGACTCCCTC ATTCCTAGAA 60  
 ATTTAACCTT AATGAAATCC CTAATAAAAC TCAGTGCTGT GTTATTTGTG CCTCATTTCC 120  
 CCAGGAATAG TCACTGCCTT GAGGAACCAA A 151

## (2) INFORMATION FOR SEQ ID NO: 1736:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 106
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01954

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1736:

GATCCACCCA CCTNAGGCCT CCCAAAGTGC TGGGANNACA GNCGTGANAA CCACGGCTTC 60  
 GCCAACAATG GATTTTTTAAA TTATTTCCAC GCTCACAAAA AACCTN 106

## (2) INFORMATION FOR SEQ ID NO: 1737:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 106
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01955

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1737:

GATCNANCCT CAACACCTAG TGCAATTCTT TTTACACATT AGGNACTTAG TAATTNGGGT 60  
TGAATTGTGT TGAACCTAACC TGGCGGTATA GGCAAAANTT GGAAGN 106

(2) INFORMATION FOR SEQ ID NO: 1738:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01956

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1738:

GATCTCCCAT TTCTAGGAAC CCCAGTCCTG CTTCTCCGCA ATGGCACATG CTTCCACTCC 60  
ATCCATACTG GCATCCTCAA ATAAACAGAT ATGTATACAT ATAAA 105

(2) INFORMATION FOR SEQ ID NO: 1739:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01957

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1739:

GATCCAAGAG ATATATTTGG CAACTTTTTC TAGAAAAGGC ACATTGGGTA TAATTCATTA 60  
CATTCTTGAG TTTTTTTGGG TTTTTTTTTT TTTTTTNGNG NNANN 105

(2) INFORMATION FOR SEQ ID NO: 1740:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 107
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01958

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1740:

GATCCAGCTG GAAAGCTGAA GTATTTTCGAT AAAGTGAATT GAGAAATACT TCTTCAAGTT 60  
ATGATGCTTG AAAGTTCTCA ATAAAGTTCA CGGTTTCATT ACCNAAA 107

(2) INFORMATION FOR SEQ ID NO: 1741:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 119
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01959

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1741:

GATCTTAAGG TATCAGTATT TCAGAATCCT GCGACGATTT TATTTCTAAA TTCATGTACT 60  
GTATGTCCAT AAGTGAAAAT AAAATNTCAT ATTCTTTTCT ATNATTGGTA TCATTCAA 119

(2) INFORMATION FOR SEQ ID NO: 1742:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 114  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01960

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1742:

GATCCTTAGC TCTTTGCTCT ATGGCCCTTC CTCATCAGGG GACCGTTTCC CCCCTCTTCC 60  
TTCACAGTAT TTAAGAAATA AAAGTCGGAT TTNCTGGCT GCTTTCTCTC TAAA 114

(2) INFORMATION FOR SEQ ID NO: 1743:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 102  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01961

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1743:

GATCGCCCCA TTGCACTNCA ANCTGGACAG CAAGAGCAAA ACTCCGTNTC AAAAAACAAA 60  
AACAAAAANCA AACAAAAAAN TTCCCCTGAG AGAAAACCTA TN 102

(2) INFORMATION FOR SEQ ID NO: 1744:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 101  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01962

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1744:

GATCACACAC TAAGAGAACG TTGATTGCCT CGGCTATTGT GCTGGCTGGA CACTTTGGTC 60  
ACTTTTGAAG CATGTTAATA AATGTCACTG ATTAAAACAA A 101

(2) INFORMATION FOR SEQ ID NO: 1745:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 100  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01963

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1745:

GATCCAAGTT TGAACAACAT TTAGGCTAC TAGATATGAA CAACATCTTG ATTATGTAGT 60

TGAAGGAAAT TAAAGATGAA TGGTTTAATT AAAAATTAAA 100

(2) INFORMATION FOR SEQ ID NO: 1746:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 99

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01964

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1746:

GATCAAATTA AATAATTCAA GCCCTGCCTT CAAAATGAAA TTTTTTTTTT AGTATTATTT 60

AGCAAAANCA ATAAAACCCA AATTTTTTTTA ACCATCAAA 99

(2) INFORMATION FOR SEQ ID NO: 1747:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 97

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01965

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1747:

GATCACTTCA AGCAAGCCCC CATGATGGTT CTCAGTCCTG CTTCTCTGTG GGTACGTGCC 60

CCTCTGTTTA AAAATAAACT GAATATGGAT GTTTAAA 97

(2) INFORMATION FOR SEQ ID NO: 1748:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 100

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01966

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1748:

GATCAAAATG AAAACCTGTT GATGTGAATT CAGTTATTGA ACTTGTTACT TGTTTTTGCC 60

AGAAATGTTA TTAATAAATG TCAATGTGGG AGATAATAAA 100

(2) INFORMATION FOR SEQ ID NO: 1749:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 95

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01967  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1749:  
 GATCTGATGT TCCTTTTATT TATAACAATG TTAAATGCAA TTGTCTTGTA CCTTGAGTTG 60  
 AGTATTACAC ATTAAAGTAA AGTACAAGCT GTAAA 95

(2) INFORMATION FOR SEQ ID NO: 1750:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 94  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01968  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1750:  
 GATCCAGAAG TAAATGTATC TNCAAGCTGA TTAAATTGT AGATTNNTC TTCATTGCAT 60  
 ATTNCTGAT GTTGAATAAA GTCTGAGTAT TAAA 94

(2) INFORMATION FOR SEQ ID NO: 1751:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 89  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01969  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1751:  
 GATCCAAAGT ATATTTTAC TGAGAATATA TCTGAAAAA TTTGAATTGA GATTAAATTT 60  
 TTAAATGAAA TATATTTACT TTTTTTAAA 89

(2) INFORMATION FOR SEQ ID NO: 1752:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 89  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01970  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1752:  
 GATCCTGGCC CCTCAACCTC CTGTGGAACC CAGCAGTTCT GTTATATCCC CTGCTACCCT 60  
 AGATGAATTA AGACGGTTAA ATACTGAAA 89

(2) INFORMATION FOR SEQ ID NO: 1753:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 89



(B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01972  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1753:  
 GATCTGTCTT GCTTATTGTT GCCCCCTGCG NCTAGCACAA TTCTGACACA CAATTGGAAC 60  
 TTACTAAAAA TTTNTTTTCTA CTGTTTAAA 89

(2) INFORMATION FOR SEQ ID NO: 1754:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 87  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01973  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1754:  
 GATCATATGG TAGTTTTGTT TTACTAATCT AAGGGTACTA GCATCTACAA TNATATAGAC 60  
 AAAATAAAAT ATTTCTTTAA TGGCAAA 87

(2) INFORMATION FOR SEQ ID NO: 1755:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 85  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01974  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1755:  
 GATCTGTTTT CTCTAAAATC TTACCATATT GTCTGTATAT GGTTGTAAAT NCAATGGAA 60  
 AGTAAACGT TTTGGCCCTG ATAAA 85

(2) INFORMATION FOR SEQ ID NO: 1756:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 88  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01975  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1756:  
 GATCCTGCTG GAAACCACGG CAACCTGTAT CCACTATTAG GAGGTAAAAA TCAATAAAAT 60  
 GGCCCATTC A TTTGTGTTGT AGCTCAA 88

(2) INFORMATION FOR SEQ ID NO: 1757:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 84  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01976

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1757:  
 GATCTACAAC ATATAAAATT GTGTATTTTC NTTTGTTGT CCCTATTAAC AAAAAAGTAT 60  
 TTNAATAAAA ANTTGAAATG NAAA 84

(2) INFORMATION FOR SEQ ID NO: 1758:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 82  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01977

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1758:  
 GATCCCACTG TAAAATTGGA AATGGGCAGT TCTGAATTTT CACGTTTGAA ATGTAAAATA 60  
 TAAACTTCAG TCAATATCCA AA 82

(2) INFORMATION FOR SEQ ID NO: 1759:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 82  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01978

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1759:  
 GATCTGGACG TTCACGTGCA CTCTCTTCCT GTACAGTATT TATTGTTCTT GGCACCTTAT 60  
 TTAAAGATAT TTGACCCTCA AA 82

(2) INFORMATION FOR SEQ ID NO: 1760:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 81  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01979

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1760:  
 GATCCTTACT CCTGCATTGT TCTTTGCCAG NGNCCTATTT AAAAATTTTA AAATTCTCAT 60  
 TAAAGTCAGC TTGGGTTTAA A 81

## (2) INFORMATION FOR SEQ ID NO: 1761:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 79
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01981

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1761:

GATCTAAAGA GAAAAGGGAG AAGAGGGAAA AAGGAAACAA AGGAGAAGAA AGAGGGAAAG 60  
 GAAAAAAAAG AAAAAGAAA 79

## (2) INFORMATION FOR SEQ ID NO: 1762:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 79
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01982

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1762:

GATCATGAAA GGTGATAAGC TCTTCTATGA TAGGGGAAGT AGCGTCTTGT AGACCTACTT 60  
 GCGCTGTTGT ACTCTGAAA 79

## (2) INFORMATION FOR SEQ ID NO: 1763:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 80
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01983

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1763:

GATCAAATAT TTTGCCTTTN ACTNAAATCA GCCAGCCCAT NACCCCCAAT AAAGGGCAGC 60  
 TGCCTCTGCT CCCTCTGAAA 80

## (2) INFORMATION FOR SEQ ID NO: 1764:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 79
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01984

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1764:

GATCAAATTT CTAAAGCAA ACAACAAAAA TGTACATTTC TGTTTTTCCT TTTAATAAAC 60  
AGGTGTACTC TTTATCAAA 79

(2) INFORMATION FOR SEQ ID NO: 1765:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 78
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01985

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1765:

GATCTAGTGT CCTTTTGTGA CACTAAACAG GTGAATGCTG ACTTTTTTCA TTCTCCAATA 60  
AATNTCACTG AACTGAAA 78

(2) INFORMATION FOR SEQ ID NO: 1766:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 75
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01986

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1766:

GATCTTTGTT TAGTTTCAAG TCTTTTTATA ACTAAATCTG CTGGCATTAG ACAATAAATA 60  
CATTTTCAAA ATAAA 75

(2) INFORMATION FOR SEQ ID NO: 1767:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 75
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01987

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1767:

GATCATATAT ACTTGCATAA TATCATCCCT TCCCTTGATT TCTTTCAATC TAAAAATAAA 60  
TATGAGAAAA ACAA 75

(2) INFORMATION FOR SEQ ID NO: 1768:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 78
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS01988

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1768:

GATCGATATT AATGTATCCA ATGAAATAAT CGACTTGTNC TTGATAGCCT CATTAAAGCA 60  
TTTGGTTTTN CACATAAA 78

(2) INFORMATION FOR SEQ ID NO: 1769:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 74  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01989

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1769:

GATCTGAGCC CCAAGATGG AGAATGGGGA GGAGCTTTTT ATGGCGGACT GATTAAAACT 60  
CTTAAGCATT TAA 74

(2) INFORMATION FOR SEQ ID NO: 1770:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 72  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01990

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1770:

GATCTGCTTG GCCTTGATAA GCTATGTTGT TGCACTTTAA ACATTAAAT TATACAATCA 60  
TCAACCCCCA AA 72

(2) INFORMATION FOR SEQ ID NO: 1771:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 69  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01991

(ix) FEATURE:

(D)-- OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1771:

GATCCTCCCC TTCAAATGAC TGTAATTAAC AACACTTAAA AAACCTGAAT AAAATATTGA 60  
AACCTCAAA 69

(2) INFORMATION FOR SEQ ID NO: 1772:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 68  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01992

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1772:

GATCTATTCT GAAGCTGTTC ATTTTAAACA AATAAAATGT TACAGGTTTC ACATGATTTA 60

TTCTCAAA 68

(2) INFORMATION FOR SEQ ID NO: 1773:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 66

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01994

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1773:

GATCCGTAAC TNCGGGATAA GGATTGGCTC TAAGGGCTGG AGAAGGAATG AATAAAAAAA 60

AAGAAA 66

(2) INFORMATION FOR SEQ ID NO: 1774:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 67

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01995

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1774:

GATCCCATGT CTCTGCCAGG ACCAAGGCNG ATGTTTCCCC ACTAATAAAG TGCCGGGTGT 60

CAGCAA 67

(2) INFORMATION FOR SEQ ID NO: 1775:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 65

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS01996

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1775:

GATCCTTTTT AATACCACAG CATTTGTACT GTTCCTTTTT AATATACTGA AAATATAAAA 60

GGAAA 65

(2) INFORMATION FOR SEQ ID NO: 1776:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 71

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01997  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1776:  
 GATCCGATTA TTTCTGCCAG TNTATTTTGG NCACTTTATA ATCATTAAAG CACTTTCTTG 60  
 GCAGGCNCAA A 71

(2) INFORMATION FOR SEQ ID NO: 1777:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 72  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01998  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1777:  
 GATCTTACAA TAATGTTCCA CTCTGCAAAT TTTTAAGGTT CAAATAAAGT TTAATTGTTT 60  
 GCAAAGTGA AA 72

(2) INFORMATION FOR SEQ ID NO: 1778:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 65  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS01999  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1778:  
 GATCATTGCA CCATGTCAGA CTTTTGTATA TNCCTTGAAA ATAAATGAAA GTNAGAATCN 60  
 TCAAA 65

(2) INFORMATION FOR SEQ ID NO: 1779:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 62  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02000  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1779:  
 GATCCTGTCC TGATTCTCAA AAATTATTTT CTCTGTATGA TTAAAAGTTT ATTCCATTTA 60  
 AA 62

(2) INFORMATION FOR SEQ ID NO: 1780:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 66

(B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02001  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1780:  
 GATCCCTTCA TTTGAATATT AATGGCTTTT TCCATTAAAG AATAAAATAT TTTGGACAAT 60  
 GCCAAA 66

(2) INFORMATION FOR SEQ ID NO: 1781:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 68  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02002  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1781:  
 GATCAAATTT ATAAGTTATT ATTTTAAATT TTCTAAATTA AATAAAAGAA AGAATGCAAA 60  
 CCAGGAAA 68

(2) INFORMATION FOR SEQ ID NO: 1782:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 59  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02003  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1782:  
 GATCAATAAA GAGTAATTTT TTGCTAAATA AATAAAAGAA ACCTTGTTGA AAAACTAAA 59

(2) INFORMATION FOR SEQ ID NO: 1783:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 59  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02005  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1783:  
 GATCTGAATN ATGCACCCCA CCCCCACCCC AATAAAGAAA TAACAGAAAA CCCTCGAAA 59

(2) INFORMATION FOR SEQ ID NO: 1784:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 58



(B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02006  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1784:  
 GATCTTCATT TTTTTTTTTTA AACTTGCGCT TTTTGAATA AAAACCTTTT GTCTTAAA 58

(2) INFORMATION FOR SEQ ID NO: 1785:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 59  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02007  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1785:  
 GATCTCAGTT GTAAATAGAA AAATCTAATT CAATAAACTC TGTATCAGCC CCAACAAA 59

(2) INFORMATION FOR SEQ ID NO: 1786:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 52  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02010  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1786:  
 GATCCAAAGT CATGTGTCCA CACATTCATA AATAAAATT TTACCTATGA AA 52

(2) INFORMATION FOR SEQ ID NO: 1787:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 51  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02011  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1787:  
 GATCCAGTGA AGCCAGAAGC CAAATAAACT CAAAAGCTGT CTCCCCACAA A 51

(2) INFORMATION FOR SEQ ID NO: 1788:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 54  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single

(D) TOPOLOGY: linear  
(vii) IMMEDIATE SOURCE:  
(B) CLONE: HUMGS02012  
(ix) FEATURE:  
(D) OTHER INFORMATION: "N"=unidentified base  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1788:  
GATCCTAATT TATGCCTATG CAAAAAATAA ATAACGCCCA AGAGCTGTGG GAAA 54

(2) INFORMATION FOR SEQ ID NO: 1789:  
(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 53  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear  
(vii) IMMEDIATE SOURCE:  
(B) CLONE: HUMGS02013  
(ix) FEATURE:  
(D) OTHER INFORMATION: "N"=unidentified base  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1789:  
GATCGCCTAG TATGTTCTGT GAACACAAAT AAAATTGATT TACTGTCTGC AAA 53

(2) INFORMATION FOR SEQ ID NO: 1790:  
(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 58  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear  
(vii) IMMEDIATE SOURCE:  
(B) CLONE: HUMGS02025  
(ix) FEATURE:  
(D) OTHER INFORMATION: "N"=unidentified base  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1790:  
GATCCGTAGT AATAAATTCT CAGAGGACTC AGCCTTTCCT GCGGGTCTGG AGCTCAAA 58

(2) INFORMATION FOR SEQ ID NO: 1791:  
(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 597  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear  
(vii) IMMEDIATE SOURCE:  
(B) CLONE: HUMGS02039  
(ix) FEATURE:  
(D) OTHER INFORMATION: "N"=unidentified base  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1791:  
GATCAGAGTC TCTTGGGCAT TTTATATTTT GCATTCTGAT GTACCTAGGA GTTTTGTAA 60  
ACAGATGATG TATGTNAGTA TTTATCCCAT TTTATGCAAT TAACCAAATC AACCAAAAAA 120  
AGTGACCATG AAGTCCTGTA TTTGTNTTTT TACTACATGT AGGAACTCTC ATGTGAATGA 180  
GTACTGTAGT AATCCATTCT ATGGGAGCCT TATTTTCAGAA ATATTTCAAA CTGGTGCAAA 240  
TGGAAAAGAC TTTCTCTTTT CCTTTAAAGC TAAAGACAAG AATATCATGC TATACAGGTG 300  
CAACTCAATC CCCGTTAATA AAAACCAATG TAGGTATAGG CATTCTACCC TTTGAAATAG 360  
CTGTGTCCCA ACCTGTTGCC ATTGATTTT TGGGAATGGC TTTAGGAAAT ATCCAAGTTG 420  
TCCTTGGAAT TGTCTAACCA TGGNCATAAA CAGTTGTCTC CCTTCTACTT GTGTAGAATA 480  
CTTTGGNCTT AATTTTCCTN CCAGATACAG GGGGGTACCT GCCTGTTTTT CNAAGGGTTT 540

ATTACTGGNG GTACCATTG GTAGGATTGT TTAAATAAA AAAACCTGGT TTTTAAA 597

(2) INFORMATION FOR SEQ ID NO: 1792:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 518
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02040

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1792:

```
GATCCAAAAC TGGACCCTTG GAGCCGTCGA CTCACAGATG GATGACATGG ACATGGACTT 60
AGACAAGGAA AAAANNCAGG ACTTGAAGGA GCTCAAGGTG CTAGTGGCTG ACAAGGACCT 120
TCTGGACCTG CACAAGAGCC TGGTGTGCAC TGCTCTCCGG GGAAAGCTGG GCGTCTTCTC 180
TGAGATGGAA GCCAACTTCA AGAACCTGTC CCGGGGGCTG GTGAACGTGG CCGCCAAGCT 240
GACCCACAAT AANGATGTCA GAGACCTGTT TGTGGACCTC GTGGAGAAGT TTGTGGAACC 300
CTGCCGCTCC GACCACTGGC CACTCAGCGA CGTGCGGTTC TTCCTGAATC AGTATTCAGC 360
GTCTGTCCAC TCCCTCGATG GCTTCCGACA ACAAGGCCCT CTGGGACCGC TACATGGGCA 420
CCNTTCCGNG GCTGNCTNCT GCGGCCTGTN ATCATGACTG AGGTGGCCTN CCAAANGTTN 480
CGCCCAAGGT TGACAATAAA GTTGCTCTGA GTTTGAAA 518
```

(2) INFORMATION FOR SEQ ID NO: 1793:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 513
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02041

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1793:

```
GATCTGTAAT TTAAATTTTC ACCCTCTGTA CCCCATGACC TTATCCTTCC TCTCCTTCCT 60
TGTTACCCAT GAAAACTGG CAACATTCCA AGAATAGCAT CTGTACAAAG GGGAAAGAAC 120
ATAAAGGTAA AACAAAACAA AACAACATTT TGAGAACAAA GATGACCATA ACCACTGAAG 180
GGAATCACAT CTTTTAAGAC AAATTCATAT TCTTTTATTT GTTATGGCAG ATGACAAGAT 240
GGTACAACCT TTATTCTTTT NCAAAATAAA ACAAAGGGCA CAGCATCTGT AGTCAGCCGA 300
CAACTATTNC GGCCTTTTGG GGGTNGGTCT NGCCGTACTT GTGATTTTCA TGGTACGTGA 360
CCNTNTTCTG GAAGGCTTGC CCCNTTGCCC GTGTACATAG GTGCATTGGT TNCTNTGGGA 420
GGGGCCCAAG NACTTTTNGG CNANNGTTGT ACTGGTATTG TNATGAAATT TNCGGTTGGN 480
CCTCTGNNA NTTTTTTNTG CANGAANGNN GGN 513
```

(2) INFORMATION FOR SEQ ID NO: 1794:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 499
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02042

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1794:

```

GATCTCTTAA GAGATGATGG ACTCATGTAT GTCACCCGAC TTCGCAACAC TGGGGTTCAG 60
GTGACTCATA ACCATGTTGA GGATGGATTG CATGGAGCAT TTTCATTTCT GGGACTTAAA 120
ATTAGTCACA GACTTATAAA TCAGTATATT GAGTGGCTAA AGGAAAATCT ATAGTAAAAC 180
ATGTAGCTAT AACATATTTT AAAAATAAAA TCTGAAAACC TCAGAAAATT TGCATTAGAA 240
ATTGGTCTTT CTTAGAATGG TCTAGTTAAG TTCCACATGT AGCATAATTC TTAAATAGGC 300
ACTTTTCTGT TTTTTTTTNC TNACTGTGGG ATTTTCATNNC AATTTTCTAC ATTGTCTATC 360
TGCTTTTNCT GNGATTTTCC NCTTACACTG TTAATCTNAT TTTAAAAAAA TGTACATNCC 420
NNGNANACNT TAANTTTGGG GAGTTNGGCT ACNANTTNAC GGTGCGCAGG GGGNTTAAAT 480
GGTGGGGCCA ATTTTAAAA 499

```

## (2) INFORMATION FOR SEQ ID NO: 1795:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 483  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02043

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1795:

```

GATCAAAGCG CCACTGCCCT GCACCTCCTG GGCCGCGTGG CAACCCGCTG NGCACAGCAT 60
GAGGCCAGGG NCCCAGAACA CAGTGCCTGG CAAGGCCTCT GCCCNTGGCC TTTGAAANAA 120
AGGCCAGCAG CAGATAACAA CCCCAGACAA ATCAGCGATG TGTCACCCCC AGTCTCCCAC 180
CTTTTCTTCT AATGAGTCGA CTTTNNGCTG GAAAGCAGCC GTTTCTCCTT GGTCTAAGTG 240
TGCTGCATGG AGTGAGCAGT AGAAGCCTGC AGCGGCACAA ATGCACCTCC CAGTTTGCTG 300
GGGTTATTTT AGAGAATGGG GGTGGGGAGG CAAAGAACCA GTGTTTAGCG CGGGACTACT 360
GTTCCAAAAA GANTTNCAAC CGNCCAGNTT GTTTGTGAAA CAAAAAAGTG TTNCCTTTTT 420
CAAGTTTGAG AACAAAAATT GGGGTTTTAA AATTAAAGTA TACCATTTTT TGCATTTGNC 480
AAA 483

```

## (2) INFORMATION FOR SEQ ID NO: 1796:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 481  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02044

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1796:

```

GATCCAAAAAC GCTTCGAGGC ACCCAAATT ACCTGCCCAT TCGTCAGGAC ACCCACCCAC 60
CCAGTGTTAT ATTCTGCCTC GCCGGAGTGG GTGTTCCCGG GGGCACTTGC CGACCAGCCC 120
CTTGCGTCCC CAGGTNNNNA GCTCTCCCTT GGGCCACTAA CCATCCTGGC CCGGGCTGCC 180
TNGTCTGACC TCCGTGCCTA GTCGTGGCTC TCCATCTTGT CTCTCCCCG TGTCCCCAAT 240
GTCTTCAGTG GGGGGCCCCC TCTTGGGTCC CNTCCTCTGN CATCANCTGA AGACCCCCAC 300
GGCAAACACT GAATGTCACC TGTGNCTGCN GNCTCGGTCC ACCTTGCGGG CCGTGTTTGA 360
CTAAACTTNA ACTTCTTTTA ACGGTAATAT TTCCGGCAAA AATCCAATGG TTTGGGTTTT 420
GGTCTTTTAA CNTTGTAAC GGTGCAAAT CCAAATAAAA GCAATTAAAA AGTCAATGAA 480
A 481

```

## (2) INFORMATION FOR SEQ ID NO: 1797:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 462
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02045

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1797:

```
GATCTAAAAG GGTTTTCTTA GAAAGGGCAA TATTGTCCAA TGAAGTAAGC AGAAGGACTC 60
TGGGTTAGAA GCATCTGCAC AAAAAGTGGT GAGACCTACT CTCCACTGCT CTGCAGCTGG 120
ATGGCTGATG GCAGGCTGAG CAGTGGGGAA GCAGGTTTTA ACAACAGGGA GTCCTTCCAG 180
GTCAGTGTAT ATTGNGAAGA AACATAAAAC TATTGTCTGT TACATTCCGA GGTCAGCCTT 240
CTNCTTAACG TTTTATAATA TGCAAATNCC AGCTTCTGGA AAGCANGTAT CATCATGTAC 300
CAAATGCTTT ATACACCATC ACATTCATGA NTTTTTNAGC ATGGTCAGAN CTTGTGTAAA 360
TATGTCTCTT AGGATGATTT TGGGGGAGGA TGTGATTTAT TTTCCATAAT TTCCAAANTN 420
GCATTTTCCA TTTCAAATA AGGNTAATCT NTTGGGGCCA AA 462
```

## (2) INFORMATION FOR SEQ ID NO: 1798:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 448
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02046

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1798:

```
GATCAGCCTG CAGCCATCCC CCGACCCTGC TGCTAGGCCA CCGTCTGCGC CCTGGGGCCT 60
CATCTCCCCC AGCCCACTTG TTTTCCCCC TTTTATTCCC TAGGCCCTTT TCAGACTCCT 120
GGGCCCTTGG NNNCTCTTCT CCCATCTCCC TTCACAGGAT GACACCCTCC CATACCCCAT 180
AGCTGGGGCC AGCAGGTTCT GCTGAGGGTG GGGCTGGTGT AGGGACCCCC AAGAGACCCC 240
TGTCCTGTCC CTTACACAGT CCTGGGGAGG CTGGGACTCC CCCTGCCACA AGCCTGGGCC 300
ACAGTTCACA TTCCACTGCT GGGAGAAGAA ACAGGCCGAG GCCCAANAGT GGCCTGCCCC 360
CGGGAGCCAA AGACCCNAGT GGCCACANTG GGATTAGGGT NGGGGAGGNT TGGNAGCGCT 420
NTTTTATAAA ATATTATACA TAAGGAAA 448
```

## (2) INFORMATION FOR SEQ ID NO: 1799:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 448
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02047

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1799:

```
GATCTGGTTG GTGGATGAAC AAGTGTACAG CTGGCCATCT CAATGGNGTT TATTACCAAG 60
GTGGCACTTA CTCAAAGCA TCTACTCCTA ATGGTTATGA TAATGGCATT ATTTGGGCCA 120
CTTGAAAAAC CCGGTGGTAT TCCATGAAGA AAACCACTAT GAAGATAATC CCATTCANCA 180
GACTCACAAT TGGAGAAGGA CAGCAACACC ACCTGGGGGG AGCCAAACAG GCTGGAGACG 240
```

```

TTTAAAAGAC CGTTTCAAAA GAGATTTACT TTTTAAAGG ACTTTATCTG AACAGAGAGA 300
TATAATATTT TTCCTATTGG ACAATGGACT TGCAAAGCTT CACTTCATTT NNNNGAGCAA 360
AAGACCCCAT GTTGGAAAAC TCCATACCAG TTTTATGCTG ATTGATAATT TATCTACATG 420
CATTTCAATA AACCTTTTGT TTCCTAAA 448

```

## (2) INFORMATION FOR SEQ ID NO: 1800:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 432
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02048

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1800:

```

GATCTGAATT ATCTGGCACC CTCCTGAATG GAACCCGAGA GTACCTCCTG TGTGGAAGGG 60
TCCTGGATTT TCCCTAACAC CCACCCTCTC CCCCTTCAGC CATGCTGATG GCAGAGAAGA 120
TAAGAACTTG GAGCCCATTT CTCACTGGAG AGGAAAACCTT GTCATCTGGC TTTGCGGAGA 180
AGGTTCACCC TTACGCTCGT AGTACATTAT CTTTACTATG TGCTAGGATA TCATATTTAA 240
AAGGACAAAA AAATGTAAAA TACTTGAATG AGCTTGTATT ATANCATTAA TATTATNNNG 300
NGTATCTGCT TTCCAGGCTG AAGTGATTCA TTCATTATTC TAGTCCTGCT TTAGTCCTTT 360
GTAATTTGTG GTAATTATGC TTTTCTTTTT AATACAAAAA AATGTATAAA ATTAAACACT 420
TGAAAAGGCA AA 432

```

## (2) INFORMATION FOR SEQ ID NO: 1801:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 430
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02049

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1801:

```

GATCCGNGCG AGGGCAACAG CGGNTCACCT ACAGCGCACT GTCGATGGCT GCACGAGTCA 60
CACCGGAGCC TGGGGCAAGA CAGTGATTGA ATACAAAACC ACCAAGACCT CCCGCCTGCC 120
CATCATCGAT GTGGCCCCCT TGGACGTTGG TGCCCCAGAC CAGGAATTCG GCTTCGACGT 180
TGGCCCTGTC TGCTTCCTGT AAACCCCTC CATCCCAACC TGGCTCCCTN CNACCCAACC 240
AACTTTNCCC CCAACCNNGG AAACAGACAA GCAACCCAAA CTGAACNNN TCAAAGCCA 300
AAAANTNGGG AGACAATTC ACATGGACTT TGGAAAAATA TTNTTTTCCT TTGCATTCAT 360
NTNTCAANCT TAGTNTNTA TCTTTGANCA ACCGGANCAT GGCCAAAAAN CAAAAGGTGC 420
ATTCANCTN 430

```

## (2) INFORMATION FOR SEQ ID NO: 1802:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 428
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02050

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1802:

```
GATCCCAAGG GAAAGATGAT TTGTATGTTA AAGTGACTGC ACAAGTAAAA GTCCAATGTT 60
GTGTGCATGA AAAGGATTCC TTGGTTATGT GCAGGGAATC ATCTCACATG CTGTTTTTCC 120
TATTTGGTTT GAGAAACAGG CTGACACTAT TCTCTTTGAT TAGAAAATAA ACTCATAAAA 180
CTCATAATGT TGATATAATC AAGATGTAAC CACTATAAAT ATGTAGAAGA GGNCGTTT 240
AAAGACCTTA AGCTGGCATT GTGAAGGAAC ACCATGGTAG ACTCTTTTGG TAAATGTATT 300
TTGTATTTAA TGAAATGCAG TATAAAGGTT GGTGANGTGT AATATANTTG TGTAACAAA 360
TCCTGTTAAT AGAGAGATGT ACAGAATCGT TTTTGGTACT GTATCTTGA AACCTTGTG 420
AAAATAAN 428
```

(2) INFORMATION FOR SEQ ID NO: 1803:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 401  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02051

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1803:

```
GATCAAAACC AAAGTGTTC AATGTGACAGT CTGAAAATTA TATACTCTAC TTCATTCATG 60
TTACACTTTT TTCTACTCCT TACCTGCTTT TACTAATGCA TTTATCCCCA AGAAAACATC 120
CAACAATATG GGACTAATTT GGAACAATAT CCAGCAATTG GTATTTAAAT AATTTACTGG 180
TTACAAAACA ATATTATGAC CAGACTCCAT TTTAGAAAAA ATTAAATCTG CATCGAAAAG 240
GGCCTTAAAA AATAGATTTT TAAAATCAAA ATCATGGTTG GCTCATGGGT GGGATTATTA 300
GTGTTCCCTTA TAGTAGTTTG TCTGGATGTA CTTTCTGATT CTCCTGTAAT AAGCATGCAT 360
TGCTTTTGT AATGNGGGAAT AATANACCAA TAAAAGGAA A 401
```

(2) INFORMATION FOR SEQ ID NO: 1804:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 396  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02052

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1804:

```
GATCCGGCTG CAAAATTCAT ACCAACCAAC AAATAAAGGA AGATACAAAG TCTTATAGAC 60
ATCCGAAAAA AAGATTTTCTA CCTGTGCTGG TCTATGATGT ATGTGGCAGT TGCTGTCTGC 120
AGTTTACAAT GTATTGTAAA TGAAGATTTT TTAAATCTA TCTTGCTGNT TNNNNTNNAA 180
ATATAAGAAA CTGGTACTTG GTAAAGAAAT CTGTCCGTAA GTACCCCCAC AATCAGTCAA 240
ACTATATTTA AAGCCAGCCT GTTTTCAGAG TATGATGTCC TTTAATGTAA ACTCAAATAT 300
CAATATTTTA AATGTCCGGA TAATATTCTA GAGGTTTAAA AAATGGAAAT ATTTGANCTT 360
TCTATTGAAG ACAATAAAGG TACACAAGTC GTTAAA 396
```

(2) INFORMATION FOR SEQ ID NO: 1805:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 392  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single

(D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02053  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1805:  
 GATCAAGAGC AGTGCTTCTC CATTTGTTTT GCAGAGAAAT GTTTTTCATT TCCCGTGTGT 60  
 TTCCATTTCC TTCTGAAATT CTGATTTTAT CCATTTTTTT AAGGCTCCTC CCCATCTCCT 120  
 TTCTTAAGGC ACTGTTGCTA TGGCACTTTT CTATAACCTT TTCATTCCTG TGTACAGTAG 180  
 CTTAAAATTG CAGTGATTGA GCATAACCTA CTTGTTTGTA TAAATTATTG AAATCCATTT 240  
 GCACCCTGTA AGAATGGACT TAAAAGTACT GCTGGACAGG CATGTGTGCT CAAAGTACAT 300  
 TGATTGCTCA AATATAAGGA AATGGCCCAA TGAACGTGGT TGTGGGAGGG GAAAGAGGAA 360  
 ACAGAGCTAG TCAGATGTGA ATTGTATCTG TN 392

(2) INFORMATION FOR SEQ ID NO: 1806:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 389  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02054  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1806:  
 GATCCTATTT GGTATGTTTT TGTCCACTGT TATGATTCAT CATGTATCTT ACAAGAGCCA 60  
 CTCAAGCAAG ACTCTGCTTC TATGTATGGT GAGGCCTTGT TGTTCTAGGC TAGAATAAAC 120  
 TCTTTGTATG CCTCAGTGAA TATGCCAGGT AAAATATATG CAGTCAAGAA TGAATTATTT 180  
 TTCTGACTAA AGTGTGTAGC AGTAAGTTCA AAATNGTGCC CTTGTTTTAA CAGTTTCTGT 240  
 CAACATCTTC TCATTTTTTC CTACAAAAAC ACCAGGGTGT ATTATAAGTA CTGCCTGTGA 300  
 GAATTTGCAC TTTATGTATT TGTGTGTGGG ATTTCTTGTG GTTTTAGCCA AATGAAGTGT 360  
 TATCNNTAAT AACCAGGTCT CTTCAATAA 389

(2) INFORMATION FOR SEQ ID NO: 1807:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 388  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02055  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1807:  
 GATCCAATTG ATGTATATGT TTATATACTG GGTTCCTGTT TTATATACCT GGCTTTTACT 60  
 TTATTAATAT GAGTTACTGA AGGTGATGGA GGTATTTGAA AATTTTACTT CCATAGGACA 120  
 TACTGCATGT AAGCCAAGTC ATGGAGAATC TGCTGCATAG CTCTATTTTA AAGTAAAGT 180  
 CTACCACCGA ATCCCTAGTC CCCCTGTTTT CTGTTTCTTC TTGTGATTGC TGCCATAATT 240  
 CTAAGTTATT TACTTTTACC ACTATTTAAG TTATCAACTT TAGCTAGTAT CTTCAAACCT 300  
 TCATTTTGAA AAATGAGAAT TTTATATTCT AAGCCAGTTT TCATTTTGGT TTTGTGGTTT 360  
 TGGGTTAATA AAACAATACT CAAATAAA 388

(2) INFORMATION FOR SEQ ID NO: 1808:

(i) SEQUENCE CHARACTERISTICS:



- (A) LENGTH: 379
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS02056
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1808:

```

GATCTTTTCC ACCAGCACCC AGAGTGTCTT CTTTCTGGGC AAGGTCGTCG ACCCCACGAA 60
ACCATAGCCC TCCCAGGGCT GCTCATCTGT TCCAAGCAGG AGGATGTGGC AGGGGAGGGC 120
TGGGAGTGAG TAGCTCTGTG TTTAGAGTTG GGGACAAGGA TGACACCGAA GTCCAGGAGT 180
CCAGGACAGC AGGTGCTGGC CGGTGGGGAG CGGGGAGGGG CACTGAGATG GGCAGGGCCT 240
GGACATTCCA CACCCTGGTG CTGTGCAGCC TCTGGCAGAG CATCCGACCT CTTGGAGCAA 300
GTTTCTGCCT CTGGAAAGGG GGCGGGCCCT TTTCACAACA GGCTGGTTTG TACCGAGTAA 360
ACAACACGNT GCCATGAAA 379

```

(2) INFORMATION FOR SEQ ID NO: 1809:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 379
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS02057
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1809:

```

GATCCTAGGG GGTTTTGTGT GGTTTTNAAT TGTGAGGAAT AAAAAATNTT CTGCCCACAC 60
TGGCATTTTA AGGTGACTGA GGTCAAACGT TGTTCCTTA GGTTGAAATA GCAGCCAAAA 120
CATTCTTNAC GCAGGGGCTT GGGATATGGC TGCTGGCAAC ACATTTTGTT GTGGGCTCCT 180
TAATTTAATG ATAAAATTTA AGCTAAACAC AAGCCAAAAA TGAATAGGTT TTTTNAATTT 240
TNATTTTTC AATAACAGGC AATTGAAATA CATGGTACAA AAATAAGTGG TAAGATAATT 300
GTAAAATGGA AATGGGCAGA NTATTCAATT TTCCATCTAT GNAAATTTTC NCATTAAAAC 360
TCATAGNTTT CTTTGNAAA 379

```

(2) INFORMATION FOR SEQ ID NO: 1810:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 358
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS02058
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1810:

```

GATCNGTTCA GCCCTGAAAA GTCCAAACTC CCAGGTATTG TTGCAGAAGG NCGAGATGAC 60
CTCTATAAAT CAGATGCATT CCATAAGGCA TTTNTTGAGG TAAATGAAGA AGGCAGTGAA 120
GCAGCTGCAA GTACCGCTGT TGTGATTGCT GGCCGTTTCG TAAACCCCAA CAGGGTGACT 180
TTCAAGGCCN CCNGGCTTNA AAAAGTTTTT ATAAGAGAAG TTCCTCTGAA CACTATTATC 240
TTCATGGGCA GAGTAGCCAA CCCTTGTTGT AAGTAAATG TTCTTATTCT TTGCACCTCT 300
TCCTATTTTN GGTGTGTGAA CAGAAGTAAA AATAAATACA AACTNNTNNC ATCTCAAA 358

```

## (2) INFORMATION FOR SEQ ID NO: 1811:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 358  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02059

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1811:

```
GATCGTTTCT NATCTCNAAG TNCCTCATTG AGNTCGGTGC ATCTGGCCAN TGAGTCTGCT 60
GAGACTCTTG ACAGCACCTC CAGCTCTGCT GCTTTCAACA ACAGTGAATT GCTCTCCAAT 120
GGTATCCAGT GATTCGTTGA AGAGGAGGTG CTCTGTAGCA GAAACTGAGC TCCGGGTGGC 180
TGGTTCTCAG TGGTTGTCTC ATGTCTCTTT TTCTGTCTTA GGTGGTTTCA TTAAATGCAG 240
CACTTGGTTA GCAGATGTTT AATTTTTTTT TTAACAACAT TAACTTGTGG CCTCTTTCTA 300
CACCTGGAAA TTTACTCTTN GAATAAATAA AAACTCGTTT GNCTTTGNCT TCTGCAAA 358
```

## (2) INFORMATION FOR SEQ ID NO: 1812:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 344  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02060

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1812:

```
GATCTATACT AGATAATCCT AGATGAAATG TTAGAGATGC TATATGATAC AACTGTGGCC 60
ATGACTGAGG AAAGGAGCTC ACGCCAGAG ACTGGGCTGC TCTCCCGGAG GCCAAACCCA 120
AGAAGGTCTG GCAGNNNTCA GGCTCAGGGA GACTCTGCCC TGCTGCAGAC CTCGGTGTGG 180
ACACACGCTG CATAGAGCTC TCCTTGAAAA CAGAGGGGTC TCAAGACATT CTGCCTACCT 240
ATTAGCTTTN CTTTATTTTT TTAACTTTTT GGGGGGAAAA GTATTTTAA GAAGTTTGTC 300
TTGCAATGTA TTTATAAATA GTAAATAAAG TTTTACCAT TAAA 344
```

## (2) INFORMATION FOR SEQ ID NO: 1813:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 338  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02062

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1813:

```
GATCCAGTAG TAGAGACATC ATCGGTCCAA AAGACTTTGC ATCTCATTAG TTGTCCATAG 60
TGACTACCAG GAGGTGGCTG GCATCTATAA CGTGTGGGAC GTTTTTATGT AAAGAACTGC 120
CTGTGTTTTT TTTTNAACC AAAGACACTG NCCATAGATT GACTTATACT TTTATAAGTC 180
TAATTGAAAT ACTTGGGGTA CTATGAAAGG NCTGTNCCTT GNGTGGCTAC GATTAGAAAA 240
TCAGGNCTAA CAACTTTTC TTTGTCTGGA NGCATATATA TTTGTGATAT AATTTNAATA 300
TGTATAATTT TGGTTTAATA AATCAAATCT ATGCCAAA 338
```

## (2) INFORMATION FOR SEQ ID NO: 1814:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 336  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02063

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1814:

```
GATCCATAGA ATGGATACTG GGAGACAATT AGTAGACTTT GCTACAGGTA GCCAATAGCC 60
CAGCCTGCAG AGTCACGTCA GATATGAAAT CCCAAAGTTC CTCCTGACTA TTGGCAACAA 120
CAATCACTAA CTGCTACTAC AAAAAGGTAA AACAAAAATG AACTTACACT TTCAAAATAT 180
CATTCACTGA TATTAAACAA ATACTTCTTG AGTGTCTACC CAGTGCCAGA CAGTGGTCTA 240
GGTTCTGGGA GGTACAGCAT CGTGGGCCAC ATGGTTAGAA GCTGAGTGTT CCTAACAAGG 300
AGGCTGATTT TGCTGCTCTA CTTTGCCTG GTTAAA 336
```

## (2) INFORMATION FOR SEQ ID NO: 1815:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 335  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02064

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1815:

```
GATCTGGATG TGGATGATGC GCCTGGAAAC AGTCAGCAGG CAACTCCGAA GACAACGAGA 60
TAAGCACCTT TCACAACCTC GGGAACGTTT ATTCCCCGCT GAAGCTTCTC ACCAGCATGG 120
CCATCTCGGT GGTGTGCTTC TTCTTCCTGG TGCCTGACT GCCTGGTGCC CAGCACATGT 180
GCTGCCCTAC AGCACCTGT GGTCTTCCTC GATAAAGGGA ACCACTTTCT TATTTTTTTC 240
TATTTTTTTT TTTTNGTAA CCGGNANACC TCCTCCAGCC ATGAGGNNNG GGNNTANCCA 300
NGTGTNATGT TTNGGAAANN NAAATGGNAT CTTTN 335
```

## (2) INFORMATION FOR SEQ ID NO: 1816:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 335  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02065

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1816:

```
GATCCATGTG TAATATCACA AGAAATTATG GAAAAATATA ACATAAAATT AAAGTGGACA 60
AACCAACAAA AGCTTTATTC AAGAACAGGT GACATAGTTG AATTTGTTTG TAAATCTGGA 120
TATCATCCAA CAAAATCTCA TTCATTTCTG GCAATGTGTC AGAATGGGAA ACTGGTATAT 180
CCGAGTTGTG AAGAAAAATA GAATCAATGG CATTACTATT AGTAAATGC ACACCTTTTT 240
CTGAATTTAC TATTATATTT GTTTTCAATT TCATTTTCA AGTACTGTTT TACTCATTTT 300
TATTCATAAA TAAAGTTTTG TGTTGATTTG TGAAA 335
```

## (2) INFORMATION FOR SEQ ID NO: 1817:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 334
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02066

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1817:

```

GATCTTGATG CGGGACTTCA GTCCTAGTGG CATTTCGGA GCGTTTCAA GAGGTTACTA 60
CCGNNACTAC AACAAGTACA TCAATGTGAA GAAGGGGAGC ATCTCGGGGA TTACCATGGT 120
GCTGGCATGC TACGTGCTCT TTAGCTACTC CTTTTCCTAC AAGCATCTCA AGCACGANCG 180
GCTCCGCAAA TACCACTGAA GAGGACACAC TCTGCACCCC CCCACCCAC GACCTTGCC 240
CGAGCCCCTC CGGNNGGAAC ACAATCTCAA TCGTTGCTGA ATCCTTCAT ATCCTAATAG 300
GAATTAACCT CCAAATAAAA CATGACTTGG TAAA 334

```

## (2) INFORMATION FOR SEQ ID NO: 1818:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 328
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02067

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1818:

```

GATCCAAACA TGAAAGCTGG AGCTACAAGT GAAGGCGTTC TGGCAAATTT CTTCAACAGT 60
TTGTTGAGTA AAAAGACTGG CTCTCCAGGA GGCCCTGGTG TGAGTGGTGG TAGCCCTGCA 120
GGTGGGGCTG GAGGTGGAAG CAGTGGTTTA CCACCATCCA CCAAAAAGTC AGGCCAGAAG 180
CCTGTCTTAG ATGTTTCATGC AGAACTAGAC AGAATTACAC GAAAACCAGT TACAGTTTCT 240
CCCACAACAC CTACATCTCC TACGGAAGGA GAAGCTTCTT GAAGATACCA AATAAAGCCA 300
TTTATTCTGT TTTCTGGGNT AATGTAAA 328

```

## (2) INFORMATION FOR SEQ ID NO: 1819:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 328
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02068

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1819:

```

GATCGGGGCT GCTTATGCCT TCGTTTATC CTGGGGGTTT GAGAGCGCTG TATTTGGGAG 60
AGAGTTTAAA AATACATTAG GAGAGAGAAA CCATTAAAAG TTCACTGTC AGAGATATTG 120
TAGGTGCTAA TACTGGATTT CGTCTCANAT TTAATTTCTT TNATGGGTCT GTTAGTCATT 180
CANCAAATCC CATAAGTATG TGTTAATATT TNAATTGTGT AAAACTCATT TGTTACTTTA 240
CAGCCTGTAA TAGTGTGTCT GCATTTNCAA CCTGTTGCAA TAACTTTNCT GAAATATTAA 300
CACATTAATA AAACTTTCT TAAACAAA 328

```

## (2) INFORMATION FOR SEQ ID NO: 1820:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 328
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02069

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1820:

```
GATCAGAGAA GAGGCTACTG GGGGAGAATT CAGTGCCCCC TTCGCCCTCT AGGGNGCAGA 60
CCTCCACTGC CATTGTCCTG TNAGCCGCCA AANACCCAC GGGGTGCCCG CATGTCCCTG 120
TCTANNNGCA GCCCAGGGCC CCCACTCCTG GCTCCTNACA CTTGCCTCCC CTATGGCCGC 180
TCTCCAGACC CTCCTCCTTT CTTCTCCCCA CATCCGCACC TGCTGTTCCC ACTCTGGGGT 240
TCTCAAGTCC ATGAACAGAT ATTGTTGCAT TTTCCACAAT GCTGATTAAA CATAATAAAC 300
AATCCAGAAA AGCAGTTTTG CCCAGAAA 328
```

## (2) INFORMATION FOR SEQ ID NO: 1821:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 319
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02070

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1821:

```
GATCCAAAAG CAGTCTCAG GAGTTTACCC CTGGGATGGG GGATGCATCT NCACCTGACT 60
TTGGGGCCAC GTGCCCTGTG GCACCCACAG TCACTGGGAG TCTCAGGAGG GATAACCGGA 120
TTTNTGCTCT TTCCCCTGTC ACTCCACAT CACACAGAAA AATGGCATTCT CTCTCTGTCT 180
CTCCCTGGCA TGGAGAGGGC AGACTGTGCA CATTTACTA GGGTCCAAAT ACAGAAGGGC 240
CCAGGGCCCA GGGGCTTGCA GCTTCGTGAG GGGTCTCTGG CCCAGTTTCC AATGAATAAA 300
GTTCTCTTGA CAGCTCAA 319
```

## (2) INFORMATION FOR SEQ ID NO: 1822:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 315
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02071

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1822:

```
GATCATCAGA TGGTCGAGTA CTCTTGGAAT GTCTCTTTGC TGTTTACTGT GGCCTCTTTA 60
CAATGGTGAG ACTTATTCT ACCCTCTACT TTCCACTATT ATNTNTTCC CCTATTGGAT 120
AATACTAGTC TGAGCAGCCC TAATACTAGA TGTACCTAAA CAGAGATACA AGCCAAGTCA 180
TTGTTCAAGT TAGTCATTTT TTAGTATCTG TTTATATTTT GTCACACATC AGAATGTATA 240
TTTATAGAG CATGTGTTTG TCTACTNGTT TGTCTACTAT AATATGTCTT TAATAAAGCT 300
AAAANCATTC TGAAA 315
```

## (2) INFORMATION FOR SEQ ID NO: 1823:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 315
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02072

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1823:

```

GATCGCTTTT TTGCCGCTCA TATTTGAATG CATTGGGTTT CCTGGACCAG CTATTTGCAC 60
AAGACTAGGG GGAGGTTGAG GGTTGGCATA GCAGGCAGGG GCTGGGATAG ACATTCAACC 120
TAGCTNNNT TCATGCTCTT AAGGCTTTAT TTTTCTAGAA TGCCAAGAAA CCAACTTTCT 180
TTAAACATGA CTCATCTCTT CGATTTTCTT GTATAGGTCT TCCTCCCACC CCAAATCTAC 240
ACTTGTTAGA AACAGAATAA TTACCTTTGC TTA CTCCATT ATCAACACTT GGAGATAGAG 300
ACTTTACACT TCAGN 315

```

## (2) INFORMATION FOR SEQ ID NO: 1824:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 332
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02073

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1824:

```

GATCGAAAAG GGACCCTGCT TCCAATTTCC CTCTTCCATT CCTCGAGCTA CTCCAGGGCT 60
TAGAAGAATG CTCTTGGTCT GTGGGTCCAG TGTTGTCTGT CATCCATTTA AGTGTTCCCA 120
CTTTCAAGTG ACAATCCTCT CTTGGCCCT GCCATAGGGC AGAGCATGTN TGGCATAGCA 180
GCCTGACTTT NATGCCCTAA TCTTGAGTTG AGGAAATATA TGCACAGGAG TCAAAGAGAT 240
GTCTTTATAT CTGACTGTAT ATAAATGAAG TTTTNGTT TTTTNGTT TCCTTTTGG 300
TGCAATAAAG TTTGTTTTGG CAGAAGGAGA AA 332

```

## (2) INFORMATION FOR SEQ ID NO: 1825:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 311
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02074

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1825:

```

GATCAAGGCG CGGACGCTAT CTACGACCAC ATCAACGAGG GGAAGCTGTG GAAACACATC 60
AAGCACAAGT ATGAGAACAA GTAGTTCCTT GGAGGCCCCC ATCCAGGCCA GAAGGACCAG 120
GTCCACCCAG CAGCTGTTTG CCCAGAGCTG GAGCCTCAGC TTGAAGATGA TGCTCAAGGT 180
ACTCTTCATG GACCACCATT CGCTGTTGGC AAGAAACGGC TTTACTTACA AAACAGACTC 240
TTTACCTTCT GCTGTGTTTG AAGTATGTTT AGTCAGCATG CTCAGGAAAT AAATGTGAAT 300
TGCCCTTGAA A 311

```

## (2) INFORMATION FOR SEQ ID NO: 1826:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 309
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02075

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1826:

```
GATCTAGTGT TTGGAACGGA CGTTACCTGC TGGTTTGTGC ACAACAGTGG AAAAGGATTC 60
ATTGACGGGC ATTACAAGGA TTACTTCGTG CCTNAGCTCT ACAGCTTTCT CAAACGGCCT 120
TAAAGGTTTA TAGTTTGGGA AATTATATAT TATTATACAT CTTTCCCCTG TCACTTTTGC 180
AGATATTCTT CGGTNCCNAT AATTAAAATG AACCAGATAT CAGGGTGGTT AATTAAAATG 240
AACCAGATAT CAGGGTGGTT TATAAAGCCT GTAAACACAC CTNAGAAAAT ANACATTTTA 300
CANATGAAA 309
```

## (2) INFORMATION FOR SEQ ID NO: 1827:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 301
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02076

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1827:

```
GATCATGAAT AACTGATTAG TAAGTCTTGC CTATATTTTC CTGATAGCAT ATGACAAATG 60
TTTCTAAGGT AACAAGATGA GAACAGATAA AGATTGTGTG GTGTTTTGGA TTTGGAGAGA 120
AATATTTTAA TTTTAAATG CAGTTACAAA TTATAATGTA TTCATATTTG TACTTTCTGT 180
TAAAATGCAT GATTGCAGAA TTGTTTAGAT TTTGTGTTTA TTCTTGATGA AAAGCTTTGT 240
TTGTTCTTGT TTTTAAGTTT GCACTCAAAT CTTAAGAAAT AAATCCACCC ATGTTATCAA 300
A 301
```

## (2) INFORMATION FOR SEQ ID NO: 1828:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 298
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02077

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1828:

```
GATCAGTGAA CTCTGGTTTT AAGATAATCT GAAACAAGGT CCTTGGGAGT AATAAAATTG 60
GTCACATTCT GTAAAGCACA TTCTGTTTAG GAATCAACTT ATCTCAAATA GTAACTCGGG 120
GCCTAACTAT ATGAGATGGC TGAAAAAATA CCACATCGTC TGTTTTCACT AGGTGATGCC 180
AAAATATTTT GCTTTATGTA TATTACAGTT CTTTTTAAAA CACTGGAAGA CTCATGTAA 240
ACTCTAATTG TGAAGGCAGA ATCTNTGCTA ATTTTTCAGA TTAAAATTCT CTTTGAAA 298
```

## (2) INFORMATION FOR SEQ ID NO: 1829:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 293  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02078

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1829:

```
GATCCCTTAT CCAACATGGT TCTAACCTTC AGTACTAAAG AAGATGCAGT TTCCTTTGCA 60
GAAAAAATG GATGGAGCTA TGNCATTGAA GAGAGGAAGG TTCCAAAACC CAAGTCCAAG 120
TCTTATGGTG CAAACTTTTC TTGGAACAAA AGAACAAGAG TATCCACAAA ATAGGTTGGC 180
ACTGACTATA TCTCTGCTTG ACTGTGAATA AAGTCAGCTG TNCAGTATTT ATAGTCCATG 240
TATAATAAAT ACATCTCTTA ATCTCCTAAT AAATTGGACC TTAAACTAC AAA 293
```

(2) INFORMATION FOR SEQ ID NO: 1830:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 291  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02079

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1830:

```
GATCANNATT TGAAAAGGNT TTCTAGAAAT TNGGGGTAAG AAGTACTACC AAAATGTAAC 60
TNCTAATCAA GGGTGATGCA CAGCAAAAGC AATGGACCCC ATCCCTCTAA AGCCTGCCCT 120
CCTTTCCTT CAACTGTATA TGCTGGGTAT TTCATTTGTN TTTTATTTT GGAGAAAGCG 180
NTTTTAACTG CAACTTTCTA TAATGCCAAA NTGACACATC TGTGCAATAG AATGATGTCT 240
GCTCTAGGGA AACCTTCAA NGCANTAAAA ATGCTGTNTT GAAATGCCAA A 291
```

(2) INFORMATION FOR SEQ ID NO: 1831:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 288  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02080

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1831:

```
GATCTGGGCC TGAATAAGGG TTATCGAATG GTGGTGAATG AAGGTTTCTA TGGTGGACAG 60
TCTGTCTATC ACGTTCATCT CCATGTTCTN GGAGGTCGGC AAATGCATTG GCCTCCTGGT 120
TAAGCACGTT TTGGGGATAA TTTTCTCTTC TTTAGGCAAT GATTAAGTTA GGCAATTTCC 180
AGTATGTTAA GTAACACACT TATTTTTGCC TGTNTATGGA GAGATTCAAG AAATAATTTT 240
AAAACCGCAT ACATAATAAA AGACATTGTT GCATGGCTTA TAGTCAA 288
```

(2) INFORMATION FOR SEQ ID NO: 1832:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 288  
 (B) TYPE: nucleic acid



- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS02081
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1832:

```
GATCCAGCCT TAATNTTTTT CTGACATCCT AGTAATAGCA GACCCTGCAC AAAGTGGATA 60
TCAGACTTAA TACTGTNAGG AGACAAAATA ATGAGAATAG TTTTACCAAA GATAATNAAA 120
TCTCGCATCA TGTCTGCATT TTACCATAGA TTGGAGTGCA TCCTTAGGAA ACTGAATGTA 180
ACAAAAACCC AGGACATTTT TGGAAATTGT ATGCTCTCTA GCAACTTTGT GTGAATTTTT 240
ATACAAACAC TGTTCTATGA GTTATATAAA ATGTTATAAA ACTAGAAA 288
```

(2) INFORMATION FOR SEQ ID NO: 1833:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 285
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS02082
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1833:

```
GATCCTGAGA ACTTCAGGCT CCTGGGCAAC GTGCTGGTCT GTGTGCTGGC CNNNCACTTT 60
GGCAAAGAAT TCACCCACC AGTGCAGGCT GCCTATNAGA AAGTGGTGGC TGGTGTGGCT 120
AATGCCCTGG CCCACAAGTA TCACTAAGCT CGCTTCTTG CTGTCCAATT TCTATTAAAG 180
GTTCTTTTGT TCCCTAAGTC CAACTACTAA ACTGGGGGAT ATTATGAAGG GCCTTGAGCA 240
TCTGGATTCT GCCTAATAAA AAACATTTAT TTTCATTGCA AGAAA 285
```

(2) INFORMATION FOR SEQ ID NO: 1834:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 282
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS02084
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1834:

```
GATCTCATGG GCTTTCCTTG GAGGAAAGGT TTTTTTTGTT GTTTTTTTTT NAAGAACTTG 60
AAACTTGTA ACAAGAGATG TCTGTAGCTT TTTNCCCAT CTGTAGTGTA TGTNAAGATT 120
NCAAAACCTG AGAGCACTT TCCTTTGTTT AGAATTATGA GAAAGGCACT AGATGACTTN 180
AGGATTTNCA TTTNCCCTT TATTGCCTCA TTTCTTGTA CGCCTTGTTG GGGAGGGAAA 240
TCTGTTTATT TTNCCCTACA AATAAAAAGC TAAGATTCTA AA 282
```

(2) INFORMATION FOR SEQ ID NO: 1835:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 279
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02085

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1835:

```
GATCTTAAGC TTTGATAAGA GCTGTGCTGT GGCTGAGTAT GGTGTGTATG TGAAGGTGAC 60
TTCCATCCAG GACTGGGTTC AGAAGACCAT AGCTGAGAAC TAATGCAAGG CTGGCCGGAA 120
GCCCTTGCC T GAAAGCAAGN CTTCAGCCTG GAAGAGGGCA AAGTGGACGG GAGTGGACAG 180
GAGTNGATGC GATAAGATNN GGTTTGAAGC TGATGGGTGC CAGCCCTGCA TTGCTGAGTC 240
AATCAATAAA GAGCTTTCTT TTGACCCAAA AAAANTAAA 279
```

(2) INFORMATION FOR SEQ ID NO: 1836:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 275  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02086

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1836:

```
GATCCATAGT GCTACCTGCA CCTCTGGATT CTGGATTCAC AGACCAAGTC CAAGCCCCTT 60
CTTACGTCGC CATAAAGGCC CCCGAACGGC ATTCTCGGTA CTTCTGTTTG TTTTGTACA 120
TTTNATTAGA AAGGACTGTA AAATAGCCAC TTAGACACTT TACCTCTTCA GTATGCAAAT 180
GTAAATAAAT TGTAATATAG GAAATCTTTT GTTTTAATAT AAGAATGAGC CTGTCCAATT 240
TCTGCTGTAC ATTATTAAAA GTTTTATTTC ACAA 275
```

(2) INFORMATION FOR SEQ ID NO: 1837:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 269  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02087

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1837:

```
GATCCGAAGA GGAACTCCTG GTCATCTTTA ACAAGAAAAT CAGCAAGAAC CCTACCTTTA 60
AGTTATTAAA GGACAAAGTC AAGCTTGTGA AATGAACATT TGTGTATTTA AAANTTGAAT 120
CCATTCTGCT GACTTCTTAC TTTCAGTCTG GTTTATAAAA TGTGTAATGA ATTCTAACAA 180
CTCAAATTTT GCTTTTTGAC GCNGTATTTT TANGTTANGN AAATATATTT NTGGTATAAC 240
TTTTATGCGA NAAATAAAAT ATATTCTGN 269
```

(2) INFORMATION FOR SEQ ID NO: 1838:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 268  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02088

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1838:

```

GATCTCATTG TTTATTAACC TGTATTCTGT TTACATGTCT TTAAACAGT GGTCTTAAA 60
TTGTAAGCTC AGGTTCAAAG TGTTGGTAAT GCCTGATTCA CAACTTTGAG AAGGTAGCAC 120
TGGAGAGAAT TGAATGGGT GCGGTAATT GGTGATACTT CTTTGAATGT AGATTTCCAA 180
TCACATCTTT AGTGTCTGAA TATATCCAAA TGTTTATAGGA TGTATGTTAC TTCTTAGAGA 240
GAAATAAAGC ATTTTGGGA AGAATAAA 268

```

## (2) INFORMATION FOR SEQ ID NO: 1839:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 265
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

```

(B) CLONE: HUMGS02089

```

## (ix) FEATURE:

```

(D) OTHER INFORMATION: "N"=unidentified base

```

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1839:

```

GATCTATCTA AATATATTAA GTAAAATTAC ACCATTCAC TGTGGGAAA ATAATCTTTG 60
GTTTGAAGA TATTAACATA ATGGGCATCT TAGAATCATA AATCACATGA AATGAGAGAC 120
AATGCAATAT TGTATAATTC CTGGATGATG CAATTGTTTT AATTGANTTT TCAAGTGCCA 180
TTATAAAGTT TTAATAATTA TCAATATGAG TTGGTGCCTA ATTTTNNNT TCCTAAAAAT 240
AAAATTTTTC CTTTTATGA GTAAA 265

```

## (2) INFORMATION FOR SEQ ID NO: 1840:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 261
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

```

(B) CLONE: HUMGS02090

```

## (ix) FEATURE:

```

(D) OTHER INFORMATION: "N"=unidentified base

```

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1840:

```

GATCATAAAA CCTTCATTCC ATAGGTACCC TTTATCCTCA CAGATACAGA GACACCAAGA 60
AGAATCTGGA CAAATAGGAC TTGCTAAGTT CTCCACAGTT TATTACCATT AGATTATGTC 120
CTTTTGTNCT CTGATTATAC TTCTGCATAA GACTGTACAT AAAANTACAC AAGTTTTCT 180
ATTTNTTTTT TGTCTTCATT TCTGAAGATT CCTGTCATGT AAAACTTACA GTAAATAAAT 240
GTGTGTGCTT TTNTCAATAA A 261

```

## (2) INFORMATION FOR SEQ ID NO: 1841:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 263
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

```

(B) CLONE: HUMGS02091

```

## (ix) FEATURE:

```

(D) OTHER INFORMATION: "N"=unidentified base

```

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1841:

```

GATCAGGTTA GGGCGAGCGC TACCTCTCCA GCCTCAGCTC TCAGTTGCAG CCCTGCTNAT 60
GCCTGCTTGG ACTTGGCCCC TGCCACCTCC NGCCTCAGGT GTCCGCTATC CACCAAAGG 120

```

GCTCCCTGAG GGTCTGGGCA AGGGACCTGC TTCTATTAGC CCTTCTCCAT GGCCCTGCCA 180  
 TGCTCTCCAA ACCACTTTTT GCAGCTTTTT CTAGTTCAAG TTCACCAGAC TCTATAAATA 240  
 AAACCGGACA GACCATGAAC AAA 263

(2) INFORMATION FOR SEQ ID NO: 1842:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 264
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02092

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1842:

GATCAGAAAG AAACCTTTTG TAGCAATATC AAGAATCTAG TTTCATCTGA GAACTTCTGA 60  
 TTAGCTCTCA GTCTTCAGCT CTATTTATCT TAGGAGTTTA ATTTGCCCTT CTCTCCCCAT 120  
 CTTCCCTCAG TTCCCATAAA ACCTTCATTA CACATAAAGA TACACGTGGG GGTCACTGAA 180  
 TCTGCTTNAN NATCCTGAAA GTTTCTGGGG CTTAAGATTC CAGACTCTGA TTCATTAAAC 240  
 TATAGTCACC CGTGTCTGT GAAA 264

(2) INFORMATION FOR SEQ ID NO: 1843:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 246
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02093

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1843:

GATCAAATGT CACACAGCAG TTTCCTTGCA AACTTTTCAG CTCCCCATGC TCCAGAATAC 60  
 CCACCCAAGA AAATAATAGG CTTTAAAACA ATATCGGCTC CTCATCCAAA GAACAACCTGC 120  
 TGATTGAAAC ACCTCATTAG CTGAGTGTAG AGAAGTGCAT CTTATGAAAC AGTCTTAGCA 180  
 GTGGTAGGTT GGGAAGGAGA TAGCTGCAAC CAAAAAGAA ATANATATTC TATAAACCTT 240  
 CAGAAA 246

(2) INFORMATION FOR SEQ ID NO: 1844:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 243
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02094

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1844:

GATCTGTGTG CATGTNTGTG TTTGTGTATA TATACATATC TAGGGCTAGT ACTTAGTTTC 60  
 ACACCCGGGA GCTGGGAGAA AAAACCTGTA CAGTTGTCTT TCTCTNATTT TNAATAAAAT 120  
 AGAAAAATCG CGCACTTGCG GTCCCCCCCC CCCCCCTTT TTAAACAAG TGTTACTNNN 180  
 NCCGGGAAAA TTTNCTGTC TTTGTAATTT TAAACTTTA AAATAAATTG GAAAAGGGAG 240  
 AAA 243

## (2) INFORMATION FOR SEQ ID NO: 1845:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 240
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02095

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1845:

GATCTAGTGA ACATTGACC TCCATTACGG AGAGTTTCCT ATGTTTCACT GTGCAAATAT 60  
 ATCTGCTATT CTCCATACTC TGTAACAGTT GCATTGACTG TCACATAATG CTCATACTTA 120  
 TCTAATGTTG AGTTATTAAT ATGTTATTAT TAAATAGAGA AATATGATTT GTGTATTATA 180  
 ATTCAAAGGC ATTTCTTTTC TGCATGTTCT AAATAAAAAG CATTATTATT TGCTGAGAAA 240

## (2) INFORMATION FOR SEQ ID NO: 1846:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 239
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02096

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1846:

GATCTAAGCA GCGTTCCAC AGCCCCCTCT AGATTCTTGG AGTTCGCAG AGCTTACTAT 60  
 ACGCGGTCTG TCCTAATCTT TGTGGTGTTT GCTATCTCTT GTGTCAAATC TGGTGAACGC 120  
 TACGCTTACA TATATTGTCT TTGTGCTGCT GTNTGACAAA CGCAATGCAA AAACAATCCT 180  
 CTTTCTCTCT CTTAATGCAT GATACAGAAT AATAATAAGA NTTTCATCTT TAAATGAAA 239

## (2) INFORMATION FOR SEQ ID NO: 1847:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 231
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02097

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1847:

GATCCATCCT CTCTCCTAGC TGAGTAAATC CGGGTCTCTA GGATGCCAGA GCAGCGCACA 60  
 CAAGCTGGGA AATCCTCAGG GTCCTACCA GCAGGACTGC CTCGCTGCCC CACCTCCCGC 120  
 TCCTTGGCCT GTCCCCAGAT TCCTTCCCTG GTTGACTTGA CTCATGCTTG TTTCACTTTC 180  
 ACATGGAATT TCCCAGTTAT GAAATTAATA AAAATCAATG GTTCCACAA A 231

## (2) INFORMATION FOR SEQ ID NO: 1848:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 231
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single

- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS02098
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1848:

```
GATCCAAAAT GCTGACAGGT TCAAACAAAA TTGGAATTGA AAATCAGAGT GCGTTC AAGA 60
GTATCAAACA ATACTATCTT GTTACTTGCT TATTACCTTA GTAGACTGGA AGCAACACTT 120
CACACAAAAA AAGGGTTTGG ATGTAATTTT GGATAAGAAG AGATGTTTCT GTAAAGTCTT 180
TCCTGAGANG CATATTATTT GAGAAAAACA CATATTCTG TTTTAGTAA A 231
```

(2) INFORMATION FOR SEQ ID NO: 1849:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 228
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS02099
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1849:

```
GATCTACCAT GTAAATGTT GTAGAGATAG AGCCATATAA CGTCACGTTT CAAAAC TAGC 60
TCTACAGTTT TGCTTCTCCT ATTAGCCATA TGATAATTGG GCTATGTAGT ATCAATATTT 120
ACTTTAATCA CAAAGGATGG TTTCTTGAAA TAATTTGTAT TGATTGAGGC CTATGA ACTG 180
ACCTGAATTG GAAAGGATGT GATTAATATA AATAATAGCA GATATAAA 228
```

(2) INFORMATION FOR SEQ ID NO: 1850:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 236
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS02100
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1850:

```
GATCTACCGG CCCCCTGGG GTGCCCTTGG GGA CTACCTC TCCTTCACCA TACCCCTGGG 60
CACCCCTGA CAACTTCTGC ACATACTGGG GCCCTGCTTA TTNTCCCAGG ACAGGCTCCT 120
TAAAGCAGAG GAGCCNGTNC TGGGAGCCCC TTCTCAA ACT CCTAAGACTT GTTTTCATGT 180
CCCACGTTCT CTGCTGACAT CCCCCAATAA AGGACCCTAA CTTTNGGNNN TNNAAA 236
```

(2) INFORMATION FOR SEQ ID NO: 1851:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 227
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS02101
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1851:

GATCTATGGT TTCTGCCTAC CCAGGATAGT CTTGTCTCTA GACAATGTAT TGATGATGCA 60  
 AATGTTCTGG AACTAAATAG TGGTGATGGT GGCACAACAC TGTGAATGTA CTAAATGTCA 120  
 CTGATTTGTA CGTATTTAAT ATGAATTAAA TGTTAAAATG GTGAATTATA TTTATGTATA 180  
 TTTNACCATA ATAAAAATAT GCATTGGAAG ATGCATTTTT TGTGAAA 227

(2) INFORMATION FOR SEQ ID NO: 1852:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 229  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02102

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1852:

GATCTTTGGA CCAGTTTCTA GCAAAGTTGT GTTTGAAAGA TACTCTATTA AAGAAGACTG 60  
 TGGAATCTTT TTATCGGTGC CCATTATATC CTTAAGTTTG GATATTTAGC TGACCTTCGC 120  
 TTTAACATAG GTCTAATTTA TTTGCCGTGT CATTTTCCAT ACAAATCAGT TGATTTAAAA 180  
 AAGTTCATTT CTCATACTGT GCATTAAAAA AAAAATTGA ACAATTAAA 229

(2) INFORMATION FOR SEQ ID NO: 1853:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 224  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02103

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1853:

GATCTCCTGT TTTTTCAGG CTCCTAAAGT AACATCAGCC ATNTTNAGA TTGTTCTGT 60  
 TTTTCGTACCT TCCCACTGGC CTCAAGTGAG CCAAGAAACA CTGCCTGCCC TCTGTCTGTC 120  
 TTCTCCTAAT TCTGCAGGTG GAGGTTGCTA GTCTAGTTTC CTTTTGAGA TACTATTTTC 180  
 ATTTTGTGA GCCTCTTTGT AATAAAATGG TACATTCTA TAA 224

(2) INFORMATION FOR SEQ ID NO: 1854:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 223  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02104

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1854:

GATCAAGGCC GGACCCCACT GCCCACTGC CCAACTGATA GCCACGCTGA NNGAATGGAA 60  
 GGAAAATTTG CTTGGACCTG CAAGCCCCGC TGTACAAGAA AATAATTAAG AAACTTTGG 120  
 AGAGTTAGCT ACTAGCTGCC TACGTGTGTN CATTTGCTAT ATAGCATACT TCTTTTTTCC 180  
 AGTTTCAATC TAACTGTGAA AGAACTTCTG ATATTTTGTG TTN 223

(2) INFORMATION FOR SEQ ID NO: 1855:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 227  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02105  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1855:  
 GATCCTAGTA ATTGCCTAGA AATATCTTTC TCTTACCTGT TATTTATCAA TTTTCCCAG 60  
 TATTTTTATA CGGAAAAAAT TGTATTGAAA ACACTTAGTA TGCAGTTGAT AAGAGGAATT 120  
 TGGTATAATT ATGGTGGGTG ATTATTTTTT ATACTGTATG TGCCAAAGCT TTACTACTGT 180  
 GGAAAGACAA CTGTTTTAAT AAAAGATTTA CATTCCAAA AAACAAA 227

(2) INFORMATION FOR SEQ ID NO: 1856:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 219  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02106  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1856:  
 GATCTATACA AAGTCTTTGA GAGGTGTTAA ATATGGTTAT TTATGCACTG TGGGATGTGT 60  
 TCTTCTTTCT CTGTATTCCG ATACAAAGTG TTGTATCAAA GTGTGATATA CAANGTGTAC 120  
 CAACATAAGT GTTGGTAGCA CNTAAGACTT ATACTTGCCT TCTGATAGTA TTCCTTTATA 180  
 CACAGTGGAT TGATTATAAA TAAATAGATG TGTCTTAA 219

(2) INFORMATION FOR SEQ ID NO: 1857:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 219  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02107  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1857:  
 GATCAAGAAA GACAAAAAGC CAGCCTGCAG CAAGCACTTT GGAGAGCAAA TCTGNAAAGA 60  
 GAGTAACGCG GAGTGTCAG AGGTGTGCAG AAAATCCAAA GAAGGCTGAG GACAATGTGT 120  
 GTGTCAAGAA AATAAGAACC AGAAGTCATA GGGACAGTGA AGATATTTGA CAGAAAAATC 180  
 GAACTGGGAA AAATATAATA AAGTTAGTTT TGTGATAAA 219

(2) INFORMATION FOR SEQ ID NO: 1858:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 219  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:



(B) CLONE: HUMGS02108  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1858:  
 GATCTGTCGG AACCAGGACA CAAAAGCAGC AAGAAGCGGG GAGAGAGAGG GATAGAAAAC 60  
 AAGCGCAGGA GAGCCTGCGA ACGCAAAANT GAATGAGGGC TTTTGTGGC TGGGGATGGG 120  
 TTTTGGTTTT GGGGTTTTTT TTTTNAATTT GTTTTGAAGT CGTACAGGGT ACTTTTCCC 180  
 AACCTCATCT NTCAGAAATC CATGTGGGNT TCCTGGAAA 219

(2) INFORMATION FOR SEQ ID NO: 1859:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 217  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02110  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1859:  
 GATCTGAAGA AATTACCAA CATTAAAATG AGANAAATTT GCGCTAATGA TGCAATTCCC 60  
 AAGACGTGCA AGAGGAAAAC TATTATAACT GTAGACCAAG ATTTGGGGGA ATTGGAACCT 120  
 AACGATGAAT CAAGTGATTC AGATGAGGAA ATGACTGCAG TGGCCTAATT GTCTTCACTT 180  
 GAATTGAAAA TAAATAATTT GAGAGCTTCA AATTAAA 217

(2) INFORMATION FOR SEQ ID NO: 1860:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 216  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02111  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1860:  
 GATCCATTTT TTTAAAATAC TGACATATAG AGTTGTACCT TATATAGAAT ATAGTTGTAT 60  
 CTTGAAGTCA ACATATTAAA TTATTCTCAA AATTATGTAT TTNCAGATTG TACTTGTAAG 120  
 TTTCAAAGAA AAATTACCGT CTTTTCATAT TGACCTGGAA ACTAAATAGG ATGTGATTCA 180  
 GCTACATTAA TTTCTTAATA CAATCTAGGA AAGAAA 216

(2) INFORMATION FOR SEQ ID NO: 1861:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 213  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02112  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1861:

```

GATCCTTTTC TTGAAAGAAT AACAGAAAAT GTGTCATCCA TTTTTCAGAA TATAACCACT 60
CAAGCTACTG GCACATAGTG AAAGATTACT TCTGACATTC CATTNCTCTT CTTTGGAAAA 120
TTAGTATNGT AATTAAATGT ACTTTTGGAA AATTAATAGA ATTATTTAAA TTACAGTATA 180
TGTCGCAAAA TATATCACTT TTGATACAAT AAA 213

```

## (2) INFORMATION FOR SEQ ID NO: 1862:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 210
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02113

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1862:

```

GATCTATCTC ATCAAACAAC ACAATGAAGA TATTTTAGAG TACAAAAGAA GAAATGGGCT 60
GGAATAAACT TTTGAAACAC TAATGTAGTA TGCTCCGTAT AGTGATTGTA GCTGTTCCCTC 120
TGGATTCACC ATCTGTTGAG TTGTAAATGT GNGANAAAAA GTTATATGTG AATATATATC 180
AAGCCAGCAT TTGTATTTTG CATCATTAAT 210

```

## (2) INFORMATION FOR SEQ ID NO: 1863:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 209
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02115

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1863:

```

GATCGGGGCT GCCAGAGGGN TAGAAGCGAG GGCACCAGCA GTTGTGGGTG GGGAGCAANG 60
GAAGAGAGAA ACTCTTCAGC GAATCCTTCT AGTACTAGTG GAGAGTTTGA CTGTGAATTA 120
ATTTTATGCC ATAAAGACC AACCCAGTTC TGTTTNNNNC TGTAGCATCT TGAAAAGAAA 180
AATTATAATA AAGCCCCAAA ATTAAGAAA 209

```

## (2) INFORMATION FOR SEQ ID NO: 1864:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 208
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02116

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1864:

```

GATCTGGAGC AACAGCTAGG AAATATCATT AATTCTGCTC TTCAGAGATG TAAAAAATAA 60
ATTACACGTG GGAGCTTTCC AAAGAAATGG AAATTGATGG GAAATTATTT GTCAAGCAAA 120
TGTTTAAAAA CCAATGAGA ACTAAATAAA GTGTTGAACA TCAACTGGGG AATTGAAGCC 180
AATAAACCTT CCTTCTTAAC CATTCAAA 208

```

## (2) INFORMATION FOR SEQ ID NO: 1865:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 201
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02117

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1865:

```
GATCTATACT TAGAATGCAA TGTNGACAGA GGGCAGTTAA AATATCCAAG ATGTATTCCA 60
AGACAAAGCA AACAAACAAC TGGAAGTGGT AATCAATTCA ACAGGCCTTC TGAATTNTCT 120
GAAGCNAAG CAACGTTTGC CATNNGATAT TTGTGACACT TTGGCAAATG GAAAAATAAA 180
CCAATTTATA CGTGCAATAA A 201
```

## (2) INFORMATION FOR SEQ ID NO: 1866:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 200
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02118

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1866:

```
GATCATGAAG GTATCCACAC TTCCCCTTGC ATTTCTTCT TAACCTCTCTG TTACACGTCA 60
TTGAAACTAC ACTTTTTTGG TCTGTTTTTG TGCTAGACTG TAAGTTCCTT GGGGGCAGGG 120
CCTTTGTCTG TCTCATCTCT GTATTCCCAA ATGCCTAACA GTACAGAGCC ATGACTCAAT 180
AAATACATGT TAAATGGAAA 200
```

## (2) INFORMATION FOR SEQ ID NO: 1867:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 202
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02119

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1867:

```
GATCACATTT TGAAATGCCT AAAAGACTTT ATTGTTCTAA TTATCCAGAT GTACCTTTGT 60
AAAATAGCTC TTTTATGAAT TAGCTGATAA GGCTGTATGT TTCTGGAACA AAATATTGGT 120
CATCTAAAN CTTTCTGTTT NCTGGGTCT GGGAAAATAG AAAATAAGAT TTCAAATATT 180
AAATAAGCTT AANGGCACCA AA 202
```

## (2) INFORMATION FOR SEQ ID NO: 1868:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 200
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02120

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1868:

GATCAGGCC C TTCTTCCCAC AGCAATAGTC CCCAATACGT AGATTTTTC TCTTCTGTAT 60  
 GTGACAACAT TTTTGTACAT TATGTTATTG GAATTTNCTT TCATACATTA TATTCCTCTA 120  
 AAACCTCTCAA GCAGACGTGA GTGTGACTTT TTGAAAAAAG TATAGGATAA ATTACATTAA 180  
 AATAGCACAT GATTTTCAAA 200

## (2) INFORMATION FOR SEQ ID NO: 1869:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 194

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02121

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1869:

GATCTNTNTG TTCATTGTAT TCTTTTNTC TCAAGAGTTC CATTTAATGG AAATAAAACG 60  
 GTATAATTAA TAATTGTCTA GGGGGGAAAA ATGAAGCAAA TNTCATTGGA TATTTTAAAA 120  
 GGTCTCCACA GAGTTTATGC CATATTGGAA TTTTGTGTA TAATTGTCAA ATAAATATTT 180  
 TGGTGANGCA TAAA 194

## (2) INFORMATION FOR SEQ ID NO: 1870:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 190

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02122

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1870:

GATCCAATAC TATTTAGTTT ATTATTGAAA TTGGAAGGAT TCATTGAGCA GCATAGAAGT 60  
 TTGTTTACAT GTTACTTTGA GATGCTAGGT ATTTGTGGAA TTAAAAAGAA TCAGGCTCTT 120  
 TTGTACTNAN TTTTAAATC TGTGATGCTT NTCAAATTTA ATTCATAATA AATTGATGCA 180  
 ATTTCATAAA 190

## (2) INFORMATION FOR SEQ ID NO: 1871:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 188

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02123

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1871:

GATCGAACAG TTTTGAAGCT ACTGTGTGTG TGAATGAACA CTCTTGCTTT ATTCCAGAAT 60

GCTGTACATC TATTTTGGAT TGTATATTGT GTTTGTGTAT TTACGCTTTG ATTCANNAGT 120  
 AACTTCTTAT GGAATTNATT TGCATTGAAC ACAAACGTGA AATAAAAAGA AATGGCTGAA 180  
 AGAGCAAA 188

(2) INFORMATION FOR SEQ ID NO: 1872:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 184
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02124

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1872:

GATCCTATTT ATTTGTTTAG GCCATCTTTA ATTTCTTTCA GCAGTGTTTT GTAGTTTCCA 60  
 TTAGAGATTT TCCATGTCNT TTGTAAAGTT TATTCCTAGG TATTTTATTT TTTATGGTAT 120  
 TNTATTATAA TCCTNNGATG TCTATTATAT AGAAATATAA TTNATTTTNG TTATTGACTG 180  
 NNNN 184

(2) INFORMATION FOR SEQ ID NO: 1873:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 181
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02126

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1873:

GATCCAAGTN CTGACTTTTC CCCCTGACAG CTGTGTGACC TTCGTGAAGT CGCCAAACCT 60  
 CAAATGAGCC CCAGTCATTG CTAGTAAGAC CTGCCTTTGA GTTGGTATGA TGTTCAAGTT 120  
 AGATAACAAA ATGTTTATAC CCATTAGAAC AGAGAATAAA TAGAACTACA TTTCTTGCAA 180  
 A 181

(2) INFORMATION FOR SEQ ID NO: 1874:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 181
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02127

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1874:

GATCTTAAAT TTTCTCATCT CAAAAAATA TGTAAGTGA TAGATATGTT AAATAGCTNN 60  
 TATGTATTTT GCAATGTGTA GTGTATATAT ATAAACATCA CACAGTACAC CATAAATATA 120  
 TTAAATTTT GTCAATTACT CTTTAAACCT TAATAAGTT GATAAACAT TCTTTTTTAA 180  
 A 181

(2) INFORMATION FOR SEQ ID NO: 1875:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 179  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02128  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1875:  
 GATCAGGTTA GCAAATGATG TAAAGAAGC TTTATTGTCT AGTTGTTTTT TTTCCCCCAA 60  
 GACAAAGGCA AGTTTCCCTA AGTTTGAGTT GATAGTTATT AAAAAGAAAA CAAAACAAAA 120  
 AAAAGGCAAG GCACAACAAA AAAATATCCT GGGCAATAAA AAAANTATTT TAAACCAA 179

(2) INFORMATION FOR SEQ ID NO: 1876:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 178  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02129  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1876:  
 GATCCGGGAG CACACGTTT CCTGATTGCT CAGGGACTCA TCTTCCCTC CTTGGTGATT 60  
 CCGCAGTGAG AGAGTGGCTG GGGCATGGAA GGCAAGATTG TGTCCCATTC CCCCAGTGCG 120  
 GCCAGCTCCG CGCCAGGATG GCGANGGAAC TCAATAAAGT GCTTTGAAAA TGCTGAAA 178

(2) INFORMATION FOR SEQ ID NO: 1877:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 175  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02130  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1877:  
 GATCATTCTC CGAAAGCAAC TCCTGACAAT TAAGCATTTT TTTCTCCAAA TACAAAGTAT 60  
 ATTCTCTTTA TTGGAAAATA AATTAATAAA TATATTCTGT ATTTTNNCTC TCCGTGAAAA 120  
 ACAAAGAGC CTCTGACATT ACTGTCTCTC AGTGTTGGTT CAGATTGAGG CTTTN 175

(2) INFORMATION FOR SEQ ID NO: 1878:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 172  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02131  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1878:

GATCAATCCT TCTTATGTTT GCTTTAATGT GTATTGAAGA AAAGCACTTT TTAAAAAGTA 60  
 CTCTTTAAGA GTGAAATAAT TAAAAACCAC TGAACATTTG CTTTGTTTTC TAAAGTTGTT 120  
 CACATATATG TAATTTAGCA GTCCAAAGAA CAAGAAATTG TTTCTTTTCA AA 172

(2) INFORMATION FOR SEQ ID NO: 1879:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 170
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02132

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1879:

GATCTGATTG TTAAAAAGTA CACAGCACCT CCCTCCCCAC TCTCTCTTGC TCCTGCTTTC 60  
 ATCAAGTGAA AACTCCCTGA GGCCTCCTCA GAAGCTGAGT AGAGGCCAGC ACTATGCTTC 120  
 CTGTACAGCC TGTGGAACCA TGAGGCAATT AAACCTCTTT TCTTTATAAA 170

(2) INFORMATION FOR SEQ ID NO: 1880:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 168
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02133

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1880:

GATCAGAAAA ATTCATCTTT TTTAACCCTG CCCTAATTTT TCTTGAGGAA TTAAATAGAG 60  
 CAAACTATTT TCAGGTTATG CTTACAATAA AATATACTTA AGAAAATGAC TGAAGATGTA 120  
 TGTTTTGTAA TGTTTTGATT AAATAAATGT ACACATTTAG AACACAAA 168

(2) INFORMATION FOR SEQ ID NO: 1881:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 168
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02134

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1881:

GATCAGCCTC CCTGTAAGCC AGTTATCAGT ATCCAAGTGC TTAAACACAG GCTTCTCAGA 60  
 AGAAAATCATT TTTATTCCTA CCATTATTTT ATACCAAAGC ATCATTATGT GCTACAGTTC 120  
 CAATTTCTTA CACAAGAATG AAAAGGGTTA CCAATGCAGC AAGTTAAA 168

(2) INFORMATION FOR SEQ ID NO: 1882:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 167
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single

(D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02135  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1882:  
 GATCTTACTG TAAGTTGAAG GGAGTTTTGC CCTAACTCAT GGATTGTGCA AGAATGAACT 60  
 GCTGTTGGGT TTGACTGACT GTCGATGGAT TGTGGTGTGG TGTATCTNAA GGCTATTGAA 120  
 TGCAACTTAC AATGCTTAGG TAAAAATCTT TATNCTTTTA GTATAAA 167

(2) INFORMATION FOR SEQ ID NO: 1883:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 165  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02136  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1883:  
 GATCCTTGAT GAGCCAACAT TGCACGTGG ATACATATCT ATGTTTACGC GCTATTAGAA 60  
 CAGAAGGCGC TGTATATAGA AATGTTGCTT TGAAGCAATA TTTGCAAAAC ACNCAGACTN 120  
 CAGNATCTGT ATTTGGAAAA AATAAAACAG GTTCTTGTTG CTAAA 165

(2) INFORMATION FOR SEQ ID NO: 1884:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 168  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02137  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1884:  
 GATCTGACCT CCACGGAGCC GCTGTCCCCG NCCCCCTTGC TTCCCGTCTG TCTGTCCTGT 60  
 CTGATTCTNT TAGGTGTCAT GTTCTTTTTT CTGTCTTGTC TTCAACTTTT TTAAAACTA 120  
 GATTGCTTTG AAAACATGAC TCAATAAAAG TTTCTGNCC AATTATAA 168

(2) INFORMATION FOR SEQ ID NO: 1885:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 163  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02138  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1885:  
 GATCACGATG GCTTCACAAG CCAGCTGTTG GGTGTTGCTAT GTCACGTGG CTCAGTCACA 60  
 TCCCTGCGTG TATACTGTCT GCGGGGCACA TATGTATCCA TTTAGAGCTA AAGGAATCAG 120  
 TGTACACTAC AGCTAATCCT AATAAATCCG ATGTTTTCCG AAA 163



## (2) INFORMATION FOR SEQ ID NO: 1886:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 159
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02139

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1886:

```
GATCTAGCAG CATGCAACA CATCACCTAA ACTACAAAAG AAAGGTCCTC ACTGTCTCTA 60
AAAAATAAAC TCATTAACCT TGAGTTATTT GCAGACAGCC AAATCACCCA GGGCAACTTT 120
AAAGAGTCAG AAAATAAAAC TTTCCCGTTG TATGACAAA 159
```

## (2) INFORMATION FOR SEQ ID NO: 1887:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 154
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02140

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1887:

```
GATCATGGAG GAAAAAGGTA CTGGATAAAA GTAACTTCA AACCTTAGGG CGGGANACTA 60
AAACCAAAAT ACATGTATTA TTTATAGAAA ATATTTTCTG TTTTAATCTT TTCTNTTTAA 120
ACAAGGACTC ATACTTAAAA AAATGTTTAG CAAA 154
```

## (2) INFORMATION FOR SEQ ID NO: 1888:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 151
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02141

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1888:

```
GATCTCTGAT GACCTAACCT AAGCAAAACC ACTGAGCTTC TGGGAAGACA ACTAGGATAC 60
TTTCTACTTT TTCTAGCTAC AATATCTTCA TACAATGACA AGTATGATGA TTTGCTATCA 120
AAATAAATTG AAATATAATG CAAACCATAA A 151
```

## (2) INFORMATION FOR SEQ ID NO: 1889:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 150
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02142

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1889:

GATCTATATT CTTCTTAATT TTTATGGCTA TATTTAATGT TTTCCATCAT TGTGCCTTTA 60  
 AAAAGTATAT GTACATGTAT GCATAAATTT ATGTGAAGTT ATATATANGN NTCCGTTATT 120  
 CCAGATTAAA GTTTATCTTT AGTAATCAAA 150

## (2) INFORMATION FOR SEQ ID NO: 1890:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 149  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02143

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1890:

GATCAAAAAT ATGTGACCTT AATGAGATTT TTATGATTTT TAAAGTAACA ATAAAAGCAG 60  
 TTTTATAGAGT TGAGTTCCAG AGAGGGCAGG GCAATGGCAG TNACATGTTT GTCATTTTAA 120  
 TAATAAATAA CATCTATTGA GTNCTTAA 149

## (2) INFORMATION FOR SEQ ID NO: 1891:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 148  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02144

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1891:

GATCCGCGGG GACCCTGCCG AGGGGGCTGT CATGCGGTTT CCAAGGTGCA CATTTNCCAC 60  
 GGAAACAGAA CTCGATGCAC TGANCTGCTC CGCCAGGANA GTGAGCGTGT AGGTNCCTGA 120  
 GGAATAAAAT GTTCCGATGA TGTGGAAA 148

## (2) INFORMATION FOR SEQ ID NO: 1892:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 147  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02145

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1892:

GATCCCCGTT CTTCAAGCTT CTCTGCTCAG TGTCTACTAA CGACCGACAT TTGCTAATGT 60  
 AAATAATAGT AAATNATTGA GAATTCTAAT TCTTTTACAC AGTCTGTTTT TAATCTATTT 120  
 TAATTAAATA AAATCTATGA CTCTAAA 147

## (2) INFORMATION FOR SEQ ID NO: 1893:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 146  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02146  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1893:  
 GATCTGGGAG TAAACTTAAC ATTCAGTGTG TCTCTGCTCT GCATCCGCCA TTTGTGTGTG 60  
 TTTCTGGACT GTGGGCTGTG TGTACCTTGG TTGGTGACTC AGTGAGAAGA AGCAGGAATN 120  
 CCAAAGATAC TGTGAATNTT CTGAAA 146

(2) INFORMATION FOR SEQ ID NO: 1894:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 144  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02147  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1894:  
 GATCTAAATG TCTAGTTTTG TATTCTTTTG TGTGTGTTCA CTGTTTCTCA GTATTACCAC 60  
 TTGAATAATT CTCTGTACAG GGGGGTTTGT GCTATACACT GGGATGTCTA ATTGCAGCAA 120  
 TAAAGCCTTT CTTTAAAAAG GAAA 144

(2) INFORMATION FOR SEQ ID NO: 1895:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 141  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02148  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1895:  
 GATCTTGGAATGCTTGAAG ACCACAAGGC TGAAAAGTGC TTTGCTGGAG TCCTGTTCTC 60  
 AGAGCTCCAC AGAAGACACG TGTTTTTGTA TCTTTAAAGA CTTGATGAAT AAACACTTTT 120  
 TCTGGTCAAT GTCAAANNA A 141

(2) INFORMATION FOR SEQ ID NO: 1896:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 142  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02149  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1896:

GATCCAGATA AACTTTCCTG TCATGTGTTA GAACTTTATT ATTATTAATA TTGTAAACT 60  
 TCTGTGCTGT TCCTGTGAAT CTCCAAATTT TGTACCTTGT TCTAAGCTAA TATATAGCAA 120  
 TTAAAAAGAG AGAAAGAGGA AA 142

(2) INFORMATION FOR SEQ ID NO: 1897:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 133
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02150

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1897:

GATCAAAGTG TGGGATGNGC TGCAAGACGT AGAACCTACC TGCCCTGCCC CCGTCCCCNC 60  
 CCTTCCTTAT TTATTCCTGC TGCCCCAGAA CATAGGTCTT GGAATAAAAT GGCTGGTTCT 120  
 TTTGTTTTTC AAA 133

(2) INFORMATION FOR SEQ ID NO: 1898:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 130
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02151

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1898:

GATCTAAGTT GCATCTTTAA TCCTGGTGGT CTTGCCTTCT GATTTTTAAT TTGTATCCTT 60  
 TTCTATTAAG ATATATTTGT CATTTTCTCT TGAATATGTA TTAAAATATC CCAAGCAATC 120  
 CAGTAACAAA 130

(2) INFORMATION FOR SEQ ID NO: 1899:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 247
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02152

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1899:

GATCGAGGAG ATGCCCTCTG AACGCCTGTC CCGGAGCACC CGCCAGCGGG CAGCCTGTGC 60  
 CCAGCTCAAC GACTTCCTCC AGGAGTATGG CACTCAGGGG TGCCAGGTCN TNAGGGCTGC 120  
 CCTCCCACNN CCGCTGGGAG GAACCTNAAC CTGGGAACCA TGAAGCTGGA AGCACTGCTG 180  
 TGTCGGCTTT NATGAACACA GCCTGGGACC AGGGCATATN AAAGGCTTTT GGCAGCAAAG 240  
 TGTCAAA 247

(2) INFORMATION FOR SEQ ID NO: 1900:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 132

- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS02153
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1900:

```
GATCTTCCTG CTACCCTCTT GGATTCTAAG TGGTTCCAAG CTTAACTTGA GACCTTCCCT 60
TCAAATCTAA AATTGGCAAA AAGTCACTTA AAATAGTGGA CTTCTGTAAT AAAGGTTGCC 120
TAAAATAACA AA 132
```

(2) INFORMATION FOR SEQ ID NO: 1901:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 128
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS02154
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1901:

```
GATCTACAGG TTNCAATTCA ACCTGTTTCT AGGTTTTTTT GTAAATTTAG TTTTGATTAA 60
GCATTATAAG CATTTGAGTC TATAAACTTT ATAGTAGCAT CTTTCAGAAT AAACATTTTT 120
AATTGAAA 128
```

(2) INFORMATION FOR SEQ ID NO: 1902:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 132
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS02155
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1902:

```
GATCCATGAG TTTGCCCTGG TTTCACTGGC CCAAGTGGTT TGTGCTAACC ACGTCTGTCT 60
TCACAGCTCT GTGTGCCAT GTGTGCTGAA CAAAAAATAA AAATTATTAT TGATTTTATA 120
TTTCAGGGGA AA 132
```

(2) INFORMATION FOR SEQ ID NO: 1903:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 128
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS02156
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1903:

```
GATCCAAGAC AGAATAATGA ATGGACTCAA ACTGCCTTGG CTTTCAGGGGA GTCCCGTCAG 60
```

GNCGTTGAGG ACTTTTCGAC CAATTCAACC CTTTGCCCCA CCTTTATTAA AATCTTAAAC 120  
AACGGAAA 128

(2) INFORMATION FOR SEQ ID NO: 1904:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 126
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02157

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1904:

GATCCACAGG GGTGGTGTCA AATGCTATTG AAATTGTGTT GAATTGTATG CTTTTTCACT 60  
TTTGATAAAT AACATGTAA AAATGTTTCA AAAAAATAAT AAAATAAATA AATATGAAAC 120  
CTTAAA 126

(2) INFORMATION FOR SEQ ID NO: 1905:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 122
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02158

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1905:

GATCTACAGA TGAATATTTA ACTCAATAGA AAAATTATTT TAGAACACAT TGTATTGGTA 60  
TTACAACCAG ATTATATTCT TGACGTTGAC TTCATTAAAA TTATCTACAA TTTCTTAATA 120  
AA 122

(2) INFORMATION FOR SEQ ID NO: 1906:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 121
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02159

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1906:

GATCTCATGG ATACAAACAG GTGACCTTGC CAATTGGTGC TTTTGTGTG TTTAAGAAAA 60  
GAACAGTAGT AACCTTGCTC CCTGGNTACC AATAAAAAAT CTATTATTTT TTTAAAAGAA 120  
A 121

(2) INFORMATION FOR SEQ ID NO: 1907:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 119
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

- (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02160
- (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1907:  
 GATCTGACCC CTGTCAGATG NAAATGATTC ACAGCTCTGG CAGTTCCCAA GTCTGGGGAG 60  
 GGGTATAGGT TTGAAAGGCT GTTTGAAAGA GGAATGTTTA ATAAAGGCTT TGATTTAAA 119
- (2) INFORMATION FOR SEQ ID NO: 1908:
- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 121  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02161
- (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1908:  
 GATCCCAGCT GGCCCTATG TTGTGTTCTG NGACTGAGGC CTTTGCTGTG AACTGCAGTG 60  
 TTTCATACGA ACCATCTTTC CTAGTGCATG AGAAATAAAG ATTATTTAAG TAATGAGGAA 120  
 A 121
- (2) INFORMATION FOR SEQ ID NO: 1909:
- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 116  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02162
- (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1909:  
 GATCTCACTT TTCAGGAAAC TTAATAATTA CCCATTATTG GGAAGCTTAA ATGAATTGAA 60  
 GCTATGCAAG TCTTTTATAT TATTAAATAT TTAAGAAGTAA ACCTGTACTA ATCAAA 116
- (2) INFORMATION FOR SEQ ID NO: 1910:
- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 116  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02163
- (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1910:  
 GATCGATATG CTCATAAAAG TGCTCAATTA TATTNCTGT ATTTTGTATG NTGTATTTTC 60  
 CAAGACGTAT ATTATTTTAC TATTAAAGAA AAAAATCATT TTTTTTCCC GAGAAA 116
- (2) INFORMATION FOR SEQ ID NO: 1911:
- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 124

(B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02164  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1911:  
 GATCCGGGCA TGGGAGACCC CACTTTAGAA AGGGTCGTCA CTCCTTTAAT CCTCTACTCA 60  
 ACAATGTACT CTTTACTTTT TATATTAAAA AAAATAAAAT AAATATGTGC CTAAACCTC 120  
 CAAA 124

(2) INFORMATION FOR SEQ ID NO: 1912:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 115  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02165  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1912:  
 GATCCACTTC TACTTAATGA GTAGTAAATA TATTTCTTTT TCCTTATGAT TTTCTTACTA 60  
 TTTNCTTTAG CTTGCTTTAT TATAAGANTA TAGCATATAA TATAAATAAA ATAAA 115

(2) INFORMATION FOR SEQ ID NO: 1913:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 112  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02166  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1913:  
 GATCCAGAAA TTGTGAACAA TGTTTGATTT AGTAGCGTGA CTTGCCTTTC CCTTTAAAAA 60  
 CATCTTTTAC AAATCTGTCT TGGAATAAAG TCTATTTTCT GCCTTTTGGA AA 112

(2) INFORMATION FOR SEQ ID NO: 1914:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 112  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02167  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1914:  
 GATCCTAATT GCCTAGAAAT ATCTTTCTCT TACCTGTTAT TTATCAATTT TNCCAGTAT 60  
 TTTTATACGG AAAAAATTGT ATTGAAAACA CTTAGTATGC AGTTGANNNN GN 112



## (2) INFORMATION FOR SEQ ID NO: 1915:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 112
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02168

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1915:

GATCAACCGT GAAGCGTAAC AAATTCTGTA TTTAGTTTTT TTTCTGTTG TGGTGGTTTT 60  
 TGTTTTGTTT TTTGTTTTTG TAAGATTCTA AATAAATNAA ATACGAGTCA AA 112

## (2) INFORMATION FOR SEQ ID NO: 1916:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 112
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02169

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1916:

GATCAAGACT NCAGTTTGGG AATGCATGGA CACCGGATTT GTTCTTATT CCTTCACTTT 60  
 TGGGGAAAT CTCNCCNTNT TTAAAAAGTG ATAAATTGG TGTTAGGTCA AA 112

## (2) INFORMATION FOR SEQ ID NO: 1917:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 112
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02170

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1917:

GATCAACGCG ACTGTATTTT GAAACATTCC AGGAAGGTTA CTTCTTGTC AACTGCCTG 60  
 GCAGTGTTTG TTCAAANCTT GTATTTAATA AATGANCATC TGACTTTACA AA 112

## (2) INFORMATION FOR SEQ ID NO: 1918:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 162
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02171

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1918:

GATCTATCTT AAGAAGTGAC CAGGAAAGAG GTTCATTGAA ATAATCATGC ATGAAGCGCC 60

AAAGATGCAC CATGTAGAAT TTTCACTTTG TACTGGCAGG CTCGTTTTAC CTGATTCTAG 120  
 AATATTTAAG AATCTAAAAA TAAAGGGCAA CTCTGACTTA AA 162

(2) INFORMATION FOR SEQ ID NO: 1919:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 111
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02172

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1919:

GATCAGGGAA CTAAGCATTG TGTGAATTCA CCAGCAAGAT GTACAGNACG CCTGTNTTTA 60  
 CATGTGTTTT ATGGAAGTAG CAGAATAAAN CATCTATTTT AAAAATGCAA A 111

(2) INFORMATION FOR SEQ ID NO: 1920:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 275
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02173

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1920:

GATCTGCGAG GAAGCCGCCT ACTCCAACCC CAGCCTACCT NTGGTGCACA NATCCGTCCC 60  
 ATAGCAAAGC CCCTGCACAG ACTCCAGCCG AGCCACACACC TGGNTATNAG GTGGGCCAGC 120  
 GGAAGCGCCT CATCTCCTCG GTGGAGGACT TCACCGAGTT TNTNTGAGGC CGGGGCCCTC 180  
 CCTCCTGCAC TGGCCTTGGA CGGTATTGCC TGTCAGTGAA ATAAATAAAG TCCTGACCCT 240  
 AGTGCACAGA CATAGAGGCA CAGATTGCAG TCAAA 275

(2) INFORMATION FOR SEQ ID NO: 1921:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 114
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02174

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1921:

GATCAGGACA GAGACTTGGG GGCCATCCTG CCCCTCCAAC CCGGACATGT GTACCTCAGC 60  
 TTTTTCCTC ACGTTGCATC AATAAAGCTT CTGTGTTTGG AACAGNTAAA CAAA 114

(2) INFORMATION FOR SEQ ID NO: 1922:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 108
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02175  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1922:  
 GATCCCAAGC NTCCCGTCCC TTGGAAAGTN CAGCCAGAAT CTNCGTCCTG ACCCCCGACA 60  
 GCCCAGCCTA GCCCACTTGT CATCCATAAA GCAAGCTCAA CCTTGAAA 108

(2) INFORMATION FOR SEQ ID NO: 1923:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 272  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02176  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1923:  
 GATCCCCCAG GTTCAGACTG AGCTCCCCCT TCCCAGTAGC TCTTGCATCC TCCTCCCAAC 60  
 TCTAGCCTGA NTNCTTTNCA ATAAAAAATA CAATTCAAGT TGCTTCTCAT GGATGGCACT 120  
 GCTTTCTCTGA GGACTCAAGG TGCCAAGATG GAGGGGCTGA CTCAGTCCAG CCAACNTTTA 180  
 ATGAGNACCT ANNNGGTGTA TGGAGCTCTA ACCCATGGGT CCATGGGAAT AAAGCAGTGA 240  
 ATAGTAACAA TAAATAATTG TAACAGCANA AA 272

(2) INFORMATION FOR SEQ ID NO: 1924:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 109  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02177  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1924:  
 GATCTGACGT TTTCTACGTA GCTTTTGTAT TTTTNTTTT TAATTNAAG GAACACTTAT 60  
 GAAGCCCTGC CATNCCCCTC CCGNGTCTAA TAAAACGTAT AATCACAAA 109

(2) INFORMATION FOR SEQ ID NO: 1925:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 104  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02178  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1925:  
 GATCAACTTG TGCTTGCCAG AGGACGCCAA TGAAGTTTGA AACACCAACA ATCAGAGATT 60  
 TTGTTTCTGT TCCTCATTAA ATCATGAGCT TTTGTGCCGA GAAA 104

(2) INFORMATION FOR SEQ ID NO: 1926:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 104  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02179

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1926:  
 GATCGTGTGT GTAGGTGGTG TTGTGTGGTT TTCCTTTGTG AAGGAGAGAG GGAAACTATN 60  
 TGTAGCTTGT TTTATAAAAA ATAAAAAATG GGTAAATCTT GAAA 104

(2) INFORMATION FOR SEQ ID NO: 1927:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 103  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02180

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1927:  
 GATCCTCCCA CTTCCACCTC CCAAGTAGCT GTGGCTACAG GTGTGTGCCA CCATGTCCAG 60  
 CTGATTTTNG TATTTTNAGT AGGGACAGTA TTTCTCCATG AAA 103

(2) INFORMATION FOR SEQ ID NO: 1928:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 106  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02181

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1928:  
 GATCTAAATC TCATTTTATG CTGTATTTTA TATCTNAGTT GTNTTTGAAA ACGTTTTGAT 60  
 TTTTGAAAC ACATCAAAAT AAATAATGGC GTTTNTTGTA TGCAAA 106

(2) INFORMATION FOR SEQ ID NO: 1929:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 272  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02182

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1929:  
 GATCTGGACG AATGATACCA AACGTTTCTT TCTAACATTG TATTTTATAA CTCTGGCCTA 60  
 TGATTGTNTT GTGTCTTGCA TTAAAAAATA AAATTTGAGA GTGGTAGAAT TACTTCTGTT 120

ATCTGAAATA CCTGAGATGC ACTTTAAACT GTTGAAATGT AAGCNCTGAG GGCAGGGNCC 180  
 GTATCTNATT TACTGTTAGT ATCCGTTGCA TCTAGTGTGG TGCACCTGGC ACACAGTAGG 240  
 CACTCAATAA ATATGTATTG ATTAAANCA AA 272

(2) INFORMATION FOR SEQ ID NO: 1930:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 171
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02183

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1930:

GATCTACAGC TCCTGGATAA TTGCTTGATT CTCGCCAGAG ACTGTCAATA TTNATTCAT 60  
 TGCCATTACC AATAAATCAT TGCTTTTGTT NAGATGGTAT CACTAGTGTT TCCATTGTAA 120  
 TCTTGACACA TGCAATTGTA AATAAAAGTC ACCACTTTTG CCAAGCTTAA A 171

(2) INFORMATION FOR SEQ ID NO: 1931:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 99
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02184

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1931:

GATCATACCA CTGCACTCTA GTCTGGGTGA CAGAGCGAGA CCCTGTCTTG AAAAAAATAA 60  
 ATAAAAATAA ATAAAAATAA AACTGGCACT ACGTTTAA 99

(2) INFORMATION FOR SEQ ID NO: 1932:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 99
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02185

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1932:

GATCTGTGTC TTAAACTTA CTGGAATGGA AATCTATGAA TTATTGCAAA TTGTAATGCT 60  
 GGAAACAAAA AATAAATCCT TGGTTAAAGG GTTTGTAA 99

(2) INFORMATION FOR SEQ ID NO: 1933:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 99
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02186

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1933:

GATCCTGACA CTCTANCACT CGACTCTGCT GCTCATGGGA AGAACAGAAT TNCTCCTGCA 60

TGCAACTAAT TCAATAAAAC TGTCTTGTGA GCTGATAAA 99

(2) INFORMATION FOR SEQ ID NO: 1934:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 90

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02187

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1934:

GATCTTGACT TATATTCTGT ACCACATACA CTTCTGTGGA CTTTATAGCAT TTGTGGGTAG 60

ACTTAATAAA GCATGTATAA AAGTGGCAAA 90

(2) INFORMATION FOR SEQ ID NO: 1935:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 91

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02188

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1935:

GATCAGGNTG CGGATAGACT TGTAAGGGTG TTTGCTGCAT ACAGTGTAAG CATTGTGACC 60

GCCAATAANC TTCAATGGTT TCTACTGNAA A 91

(2) INFORMATION FOR SEQ ID NO: 1936:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 91

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02189

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1936:

GATCTTTCGT NTTTCTAAGC GACTCTACTT TCATTGTTTG CCAGCNTAGC TCGTTGCTGT 60

TGCCCAATAA AGCTNGTGTA CGTNCTGCAA A 91

(2) INFORMATION FOR SEQ ID NO: 1937:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 86

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02191  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1937:  
 GATCTTACAT CTGCAGCTCT TTCTTCTTTG AATTCCTAT CTGTATGTCT GCCTAATTAA 60  
 AAAAATATAT ATTGTATTAT GCTAAA 86

(2) INFORMATION FOR SEQ ID NO: 1938:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 86  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02192  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1938:  
 GATCATCAGT GTTCCTTTTT ACTTATAAAG TTGGATTCTT TTTAGAATT TGTAATAAAT 60  
 AAAAAGTCT GCTTTACCAC TGTAAG 86

(2) INFORMATION FOR SEQ ID NO: 1939:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 91  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02193  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1939:  
 GATCTACCCT GCCTGTACTA CTCTAGGGAG TATGCTGGAG GCAGAGGGCA AGGGAGGGGT 60  
 GGTATTAAAC AAGTCAATTC TGTGTNGTAA A 91

(2) INFORMATION FOR SEQ ID NO: 1940:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 84  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02194  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1940:  
 GATCATGAGT GACCCAGCTG TCTCAGTTG TTTATTCTGC GTCCCCTTCT CCAATAAAAC 60  
 AAGCCAGTTG GCGTNGTTA TAAA 84

(2) INFORMATION FOR SEQ ID NO: 1941:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 79

(B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02195  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1941:  
 GATCCCCATG CCTAGCAGAG TGCTGGCACT TAGTAGGTCC TCAATAAATA TTTATTAAAT 60  
 GATGAGATGA TGGAGCAAA 79

(2) INFORMATION FOR SEQ ID NO: 1942:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 78  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02196  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1942:  
 GATCCAATCC CATAGACAGC TCTGGGCCTC TTGCATTGA GTTTTTTAGA ATTAACTGC 60  
 AGTATTTTGG AAAGCAAA 78

(2) INFORMATION FOR SEQ ID NO: 1943:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 77  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02197  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1943:  
 GATCCACTAA GGAAATGTTT TAACAGCTAG AGACCACTGC TTGCCTGAAA GGGCGTTCTT 60  
 AAATTTGGTG CAGCAAA 77

(2) INFORMATION FOR SEQ ID NO: 1944:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 76  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02198  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1944:  
 GATCCACTTC AAGAATTGCT TGCTTTCAGG AAGAGAGATG TGTTTCAACA AGCCAACTAA 60  
 AATATATTGC TGCAAA 76

(2) INFORMATION FOR SEQ ID NO: 1945:



(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 76  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02199  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1945:  
 GATCGACTTT GTGTCTCTGT TGTCTAAAT AGGTTTTCCC TGTTCTGGAC ATTTTCATATA 60  
 AATGGAATCA CACAAA 76

(2) INFORMATION FOR SEQ ID NO: 1946:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 75  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02200  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1946:  
 GATCATAGAT TTCTGATTTT ATGTAAAATT TTGCCTAATA CATTAAAGCA GTCACCTTTC 60  
 CTGTGCTGTT TCAAA 75

(2) INFORMATION FOR SEQ ID NO: 1947:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 74  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02202  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1947:  
 GATCTGTCAA AGAAAACCTC CAAAAGATT TATTAATTAA ACCAGACTCT GTTGCAATAA 60  
 AAATCCTACA GAAA 74

(2) INFORMATION FOR SEQ ID NO: 1948:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 73  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02203  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1948:  
 GATCCACTTT AGCAAACCTT GCTGCAGAGG ACTGTAAAAA CAAATAACTA AAAATAAACT 60  
 TAGAAAATAC AAA 73

## (2) INFORMATION FOR SEQ ID NO: 1949:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 73
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02204

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1949:

GATCGTAATG TTTATCATGT TACTTCCCCA CCCCTACATT TTTTGAAATA AAATAAGGAA 60  
 TTTTATTCTC AAA 73

## (2) INFORMATION FOR SEQ ID NO: 1950:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 72
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02205

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1950:

GATCNCTGCA ACTAAGNTTA AAGCAGTGTG ACTGTGTTGC TNAAATATCA AGTATTGTTT 60  
 ATAACCACCA AA 72

## (2) INFORMATION FOR SEQ ID NO: 1951:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 66
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02206

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1951:

GATCTCAGCT ATTAAGATGC AAGTCTGCCA ATGCTCCTGG CCAAATAAAC CTCTTCCTTC 60  
 TTAAAA 66

## (2) INFORMATION FOR SEQ ID NO: 1952:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 65
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02207

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1952:

GATCCTCTTG TACTGGGAGA GGTGCCTTTT GTATCCCCAA TTAAAGGTAG AAAACCACCC 60  
TGAAA 65

(2) INFORMATION FOR SEQ ID NO: 1953:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 62
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02208

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1953:

GATCTCGAAG AAAAAAGGGG GAGACCAAAG AATAAAAGAA GGGTTCCCC ACTAAATGA 60  
AA 62

(2) INFORMATION FOR SEQ ID NO: 1954:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 62
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02209

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1954:

GATCCAGCTG TNCTTAAGAG CCAGTAATGT CTTAATAAAC ATGTGGCAGC TTTNNTTGA 60  
AA 62

(2) INFORMATION FOR SEQ ID NO: 1955:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 61
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02210

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1955:

GATCTCACAT TTCACCCAG GCTCAACTGA GGATGTGGCT TATTAAACAC GGAAGTGCAA 60  
A 61

(2) INFORMATION FOR SEQ ID NO: 1956:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 59
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02211

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1956:  
 GATCAGCCAT GTNTATCTTT TTAAAAAATA AACAGGTTGC TTTATTTCTT AGCTTCAAA 59

(2) INFORMATION FOR SEQ ID NO: 1957:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 59  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02212  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1957:  
 GATCAGATGA GATTTAATGA AGACCCAGTG TAAAGAATAA ATGANTCTTA CTCCTTAAA 59

(2) INFORMATION FOR SEQ ID NO: 1958:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 57  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02213  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1958:  
 GATCTACACC TGGACTGCCC AGGTCTATAA GCCAATAAAG CCCCTGTTTA CTTGAAA 57

(2) INFORMATION FOR SEQ ID NO: 1959:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 56  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02214  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1959:  
 GATCGAAGAA AAAGGGNGN CAAAGAATAA AAGAAGGGTT TCCCACTAAA ATGAAA 56

(2) INFORMATION FOR SEQ ID NO: 1960:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 111  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02215  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1960:

GATCAGAAAT GTTGANTGTG CATTGAGTAT TAAAAAATTA GATGTATATT ATNCATTGTC 60  
 CTTTACTCAT GAGTACCTTA TAATANTANT ANTGTATTCT TTGTTAACAA A 111

(2) INFORMATION FOR SEQ ID NO: 1961:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 167  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02216

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1961:

GATCTATTCC CCATCCCAAG GCAAGCATGA ATAAAATTAG GTTAAACGTA GCATGTGGCA 60  
 TCGCAGTCTC TTAGAATTTG TTTCATCTAT TTNATTTTAT TGAATACTGT CTGTATCTTT 120  
 GGTTCCTCTG TTTGAAGAAA AAGGACAAAT AAAACATGGC CAGCAAA 167

(2) INFORMATION FOR SEQ ID NO: 1962:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 516  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02237

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1962:

GATCCTCATT CTCACCCATT TGGCTAATCC AGGAATATTG TTATCCCTNA NCCATTATAT 60  
 TNAAGTTGAG AAATGTGACA GAGGCATTTA GAGTATGGAC TTTCTTTTCC TTTTNCCTTT 120  
 NCTTTTTTCC TTTTGTGAGAT GGAGTCACAC TCTCCAGGCT GGAGTNCAGT GGCACAATCT 180  
 CGGCTCACTG CAATTNCCGT CTCCCAAGTT CAAGCGATTC TCCTGCTTTA GACTATGGAT 240  
 TTCTTTAAGG AATACTGGTT TGCAGTTTTG TTTTCTGGAC TATATCAGCA GATGGTAGAC 300  
 AGTGTTTATG TAGATGTGTT GTTGTTTTTA TCATTGGGAT TTTAACTTGG NCCGAGTNAA 360  
 ATAATCAGGT TTTTGTGATT CACACTCTCC CCCAGTTTTT GGGAATAACT TTGGAAGGTA 420  
 AGGTTTCANTN CCCTAAGGCC GGTGGGGTTN CTGTTGGACC TATGGGGGGN CCACAACCTGN 480  
 ACTATTTAAT TCCNCCCCAC TGTAAGGGGC AAAGGN 516

(2) INFORMATION FOR SEQ ID NO: 1963:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 483  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02238

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1963:

GATCTTTCCA GATGACTTGT CCAAGGTCAC ACAGGAGTCA GATGGCCTTT CCACTACCCC 60  
 ACAACACAGA TGCATAGTTA CTCTGTGGGC TAATACAATT CAGAATTCAG AGCTCTGCCC 120  
 ATGGTCACCG GTGGAATCCA CCAGCCATCT CCCTGACCTT GCTCTCCTCT GTTCTCCTCG 180  
 TCTCCAGGCT CCCATGATTC AGGGCGAGCT GGCTTCAGGA TGTGGGCAAG AGGGGTTTTA 240

GATGGAAGGG TTTTCCTCCA GGACAGAATG TTAAGCCAAG CCTGGACTTA ATTGTTCCAA 300  
 GATGTCGTTA GAATTGGTGG ACAATTTTTT TTTAATGATT AGCAAAGGAC AAGGCTTTTG 360  
 GTGGTCATTA GTATTGTTCA TCAAATATTC CAGTTCTCCA CAATTCTGGG GTACCATGGT 420  
 ANGGATGAAC CTTCCCTGTC TTTTCAGGGT TAAGTTTAGC TCTNGTGATG TGCTTTTGTC 480  
 AAA 483

(2) INFORMATION FOR SEQ ID NO: 1964:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 452
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02239

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1964:

GATCGCTGGA GCTGTGGTCG CTGCTGTGAT GTGGAGGAGG AAGAGCTCAG ATAGAAAAGG 60  
 AGGGAGCTAC TCTCAGGCTG CAAGCAGTGA CAGTGCCCAG GGCTCTGATA TGTCTCTCAC 120  
 AGCTTGTAAG GTGTGAGACA GCTGCCTTGT GTGGGACTGA GAGGCAAGAT TTGTTCTCTG 180  
 CCTTCCCTTT GTGACTTGAA GAACCCTGAC TTTGTTTCTG CAAAGGCACC TGCATGTGTC 240  
 TGTGTTCTTG TAGGCATAAT GTGAGGAGGT GGGGNGACCA CCCCACCCNN ATGTCCACCA 300  
 TGACCCTCTT CCCACGNTGA CCTGTGCTCC CTCCCCAATC ATCTNTCCTG TTCCAGAGAG 360  
 GTGGGGCTGA GGTGTCTCCA TCTCTGCCTC AACTTCATGG TGCCTGAGC TGTAACNTT 420  
 TCCTGNNTAT TAAAATAAGA CCTGAGTTTA AA 452

(2) INFORMATION FOR SEQ ID NO: 1965:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 433
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02240

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1965:

GATCAGACAC CAGAGGGTTG GGCATTCTTG CAATACCTTA ACAGTGCTGA AATCTGCAGC 60  
 ATGGTACTAA GGAAGTTAAA GTTTGAATGT AACCACCTTA TTTAAAAGGT TTTTTCTTT 120  
 AATTTAAATG AAATGGTGGT TGAAGTGAAC ATGATTTTGT TGACCATGTT CGTGAATTAC 180  
 AGATGCAACA TGCATTGGTA GAATCGTGTG ATGGTCTTTT GTGATACTTA ATTTTACAT 240  
 ATCCCAGTCT CTGTATGTAT CTGCATAGAC AAAGAAAAA CAAACTCCTG CTTTGCTTTT 300  
 ATTGAANGGG TTTCCAGGAC TCGTGTCTG CTCCTGAGCT CTGTTTTAAG TATGTGTATC 360  
 CTTTGCTTGT ATTTTGTAAT TAAAAAATA AGGAAAAGGA NGCCTTTATT TGTTGGNGCA 420  
 TGTGTCATT GTN 433

(2) INFORMATION FOR SEQ ID NO: 1966:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 424
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02241

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1966:

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GATCTGCAAA GAAAGCTTTT CTTNCGTCGC TGCCTCAGNC TCCTCCCTAT GCCTCTNGCA 60
CCTGCGCAGA AGTGCTGGCT GTGCTGANGT CACCATCATC TTCTCTCCC CCAGCTCCC 120
AGGCTGGATG GCATGGACTG TTTGCTGACC TCTGTTCTCT TAGGGCATGG GAGGTGGGAG 180
GATATCAAAT TCTNTAGCCC TTTCTCCTA TTCTCCCAAG NAGAGAGNTT CCCATTCTC 240
CTCGGCCATT GTACCTAGCT CTTGTCCCTA GCTGCATTTC AGTGGACCAT GGATAGAGGG 300
ACTGAGNGTT AGACGGGGAA GACTGGCAGN GAGGCACGCA GGTACTGTGA AAATCCTNNC 360
CTTTGACCTC CNCCAGTGGG AGAGGGGNGT TGGGGTTTTC AATGTGAGAA CAGNAACAAA 420
TAAN 424

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## (2) INFORMATION FOR SEQ ID NO: 1967:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 418  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02242

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1967:

```

GATCNCCTGC TCTCCAAGCA TGGCATCTAT GTGCAGGCCA TCAACTACCC AACTGTCCCC 60
CGGGGTGAAG AGCTCCTGCG CTTGGCACCC TCCCCCACC ACAGCCCTCA GATGATGGAA 120
GATTTTGTGG AGANGNTGCT GCTGGCTTGG ACTGCGGTGG GGCTGCCCCC CCAGGATGTG 180
TCTGTGGCTG CCTGCAATTT CTGTCGCCGT CCTGTACACT TTGAGCTCAT GAGTGAGTNG 240
GAACGTTCCCT ACTTCGGGAA CATGGGGCCC CAGTATGTCA CCACCTATGC CTGAGAAGCC 300
AGNTGCCTAG GATTACACC CCACCTGCGN TTAAGTTGGG TCCAGGCCTA CTCCTGTCTT 360
CTGCTTTGTT GTGTGCCTCT AGCTGAATTG AGCCTAAAAA TAAAGNACAA ACCACAAA 418

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## (2) INFORMATION FOR SEQ ID NO: 1968:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 413  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02243

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1968:

```

GATCATTGAA TAAAACGGGT GTAGAGTACA GGAATGGGGC AGACGCGATT CAGGTGAACA 60
GCACANGNAG AATATGAGGT GGTTCCTAGG AGCAACACTT TCGACCTCCA GTTCTCCNTG 120
ATGACAGTAG CTGTCTCCNN GNGAAAAATC CTCACCTATT AACTCTCTTT TCTTGCATCT 180
CATTTTTATA GAGCTACTCA TCCTTATTTG GAAAAACCAA CAACAAAAAA GGCTTTTAGA 240
AAATGGTTGT AAATCTGACT TCTTTGCAAG TAACTATGTA TATTGTAAAT AGGATATAAA 300
AAGGCCTTTT TTCTAAATAA GGCCTTAACT GCCTGTAACA TGAACTTCA AACTAAACCA 360
CTTAACTCAN TGNACTACCT TATGGGTTTG TCTGACATCC CTCAACTTAC CAN 413

```

## (2) INFORMATION FOR SEQ ID NO: 1969:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 412  
 (B) TYPE: nucleic acid

- (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02244  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1969:

```
GATCCACCG AGAAGAACCA TGGGTGGACC CGAACTCCCC GGTGCTCTNA GAGGACCCAN 60
NNCTTTGTGC CTTGGCAAAA AAGCACAAGC GAACCCAGC CCTGATTGCC CTGCGCTACC 120
AGCTACAGCG TGGGGTTGTG GTCCTGGCCA AGAGCTACAA TNAGCAGCGC ATCAGACAGA 180
ACGTGCAGGT GTTTGAATTC CAGTTGACTT CAGAGGAGAT GAAAGCCATA GATGGCCTAA 240
ACAGAAATGT GCGATATTTG ACCCTTGNTA TTTTGTCTGG NCCCCCTAAT TATCCATTTT 300
CTGATGAATA TTAACATGGA GGCATTGCA TGNGGGTCTA CCAGAAGNNC NTNGGGTNTT 360
GGANTGGTNG CANAAGNGGG TNGGTTCTTA TGGCTGGGGG NACTTGGGCA AN 412
```

(2) INFORMATION FOR SEQ ID NO: 1970:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 406  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02245  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1970:

```
GATCCAAAGT TCATACATTT TATGTACAAG ATACATTAGA CTTACAATAN AGTCTAATTA 60
TTAGACTTTT ATGTCAGTGG ATTGTGCTTG CAGAAATACA GAAGTAACAT ACTGACCCTA 120
GGTGAGGAGT TTCTTACATG GTTAACTGGA TTGACCCAAT TGGAGTAAA GATTTTGTCT 180
GTTACCTCGA TGCTCCTGCA GTTGTTACCT CAGCATGCCA CTGTAGTCCT TGACTCTCAC 240
ATTAAACTA ACTTTGGCTA GGTACTGGTG GCTCACACCT GTANGTAATC CCAGTACTTT 300
AGGAGGCTGA GACTGGAGGA TTAATTGAGT CCAGGAGTTG GAGACCAGCC TGGCCAATAT 360
AGACTGTCCC TACAAAGGAA AATAAANTTT GTTTCATCTT TCNAAA 406
```

(2) INFORMATION FOR SEQ ID NO: 1971:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 401  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02246  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1971:

```
GATCAAATAT GGCATCAACA ATATCCGGGA GCTGGTGGGC CACAAGGTGA ACCTGCAGAT 60
GGTGTATGAC AGTCCCCTGT NCCGCCTGGA TGCCGAGCCG AGGCCCCCTC CCACACAGGA 120
GGCTGCGTGA CATGGGCCAC TCTAGGACAG GTCATCCTCC CCGAGTCCCT GCTGCTGCGC 180
TCCTTTGCAT CCCTGGCCAG TNACCTTGTA TTTATGAGGC CTCTGTNAGG CAGCCCCCAC 240
CTTCCTCTT CCCACCTGTC CCAGGACCAG AATCCCAGGG ACAGAGGACT GGGTAGCAGG 300
TTCCTTCTGT TGTCTGTGT GGTGTGTCTA CTGTGAGGGT GGGCCCTGAG GAGACCTGTG 360
GGCCANCTAT TGTCTAATAA AGTGGGGCAG TTGCCCCCAA A 401
```

(2) INFORMATION FOR SEQ ID NO: 1972:



## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 384  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02247

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1972:

```
GATCTTTNAT GTTGTNNATT TTGGAGAGAA GCACAAGGAG TATTCTCTTT CTAGGGAAAAG 60
TTGTGAACCC AACGGAAGCG TAGTTGGGAA AAAGGCCATT GGCTAATTNC ACGTGTGTAT 120
TGCAATGGGA AATAAATAAA TAATATAGCC TGGTGTGATT GATGTGAGCT TGGNCTTGCA 180
TTCCCTTATG ATGGGATGAA GATTGACCCC TGGCTGACCT TTNTTGGCTG TGAAGAGGN 240
CAATCCTATG GCAGAGCATT CAGAATGTCA ATGCGTAATT CATTATTATC CAAAGCATAG 300
GAAGGCTCTA TGTNTGTATA TNNCCCTNTG TCGGAATACC CCCTTANCTC ATTTCCNCT 360
TAATAAATTT CACTGGGTTG NAAA 384
```

## (2) INFORMATION FOR SEQ ID NO: 1973:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 383  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02248

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1973:

```
GATCCTGCTT CTCCCCTGGG GTCTTCTTGG TTCCCTGAAG CCCCTCTTCC GGAGTCCCTG 60
CCCTCTATCG GCTCTGCCTC CTGCTTCTTT TCTGTATTGC CATGATTTTT GCTAAGGATA 120
AAGGACAAC TCAATGGCTT CTTTGGGAAA CTTGCAATCT CCCCACACAG GCCCCTCTGA 180
GATTTCTCCT TTTGCCACCT TCGATATTTT CTCCAGTTTC CTTGATTCCT TTGATACGTC 240
CCCATTACAG CCACTCTGGC CTTCCATCCA ACCTGCCAGA ACTTTTTCCT CTTGAGCACT 300
TCAGTCACTT AAACATTAGG GCTCCCTGCC CTAAAGGGAC TCAAAATCCT GCAAAANCAA 360
CCACNNAAGG ATAAAAAAT AAA 383
```

## (2) INFORMATION FOR SEQ ID NO: 1974:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 375  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02249

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1974:

```
GATCAACAGG AAGAACATGG TGGTCTCCTT TGGAGATGGG GTTACCTTCG TGGTCGTCCT 60
ACACCAGGTG TGAAGAAAC ATCCTGTCCA CCGTGACTTT CTAGGCTTCT ACGTGGTGGA 120
CAGTCACCGG ATGTCAGCAC AGACGCATGG GCTGNTGGGG CAATTCTTCC AACCTTTGA 180
CTTTAAAGTG TCTGACATCN GGCCAGGCTC TNACCCACA AAGCCAGATG CCACATTGGT 240
GGTGAAGAAC CATCANGNTG ATTNACCA GGGGCTCCCN GAAAGANTAC AGNAAAGGNA 300
TGCCANGCAT CGGCACGAAN GGTGTCTTC TTGGTTCGNN CACANCAACG GGGAATGTTG 360
```

TTGNTTGANT GGTGN

375

## (2) INFORMATION FOR SEQ ID NO: 1975:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 370
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02250

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1975:

```

GATCTATGTG CACACACCCN CATCACATGG AATGGGCTGG TCTAGGCTGT GGCCTGNCAC 60
CTTCCTTAGA GTGAATAGGG CGGACACTCC TCTCTTTTCC TGTAGCGTGT GGACCGGTCC 120
ACGCAATTCT TTATCCTGTG AACTCATCTG AGTGGGAGGT GGTGGACACT GGGGTTTCCT 180
TCCCTCTCTC CGTAGCATCC GTTGGTCTTT CTCTCCATCT CTGTTGGTTT GTCTGTCTCT 240
GTCTTCCTCC CAATCCCTAG GGGAAGGGGG CATTTGGCTA GGGGGTGCCC CTGTGAGCCT 300
NGACCTTGCC CCCTCGTCCN TCTCCCAGT GTTCCAGGA CCCCCAATAA ACCTTGTCTT 360
GTCAGTCAAA
370

```

## (2) INFORMATION FOR SEQ ID NO: 1976:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 367
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02252

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1976:

```

GATCGATACA GGGGAGGGGG GAGGTGGAAA CAAACAACAA AACTGTACAT TTTTTTTAAA 60
GTTTGTGAA AAGAATATTG TCTTATTCTA TAAAACATTT CAAACCTAGT TAGAGATTTG 120
TAATCAAAAA ACATTGCGC AGAAAGCAGC ACTTAGGGCT GCCTGTTCTA TACCCTACAG 180
TCAGACAGGA AAAGANCTGA AAATGGCACC CTTCTGACAT TCTGNGGCAG CTGGNCTNGC 240
AGCCANGTAA NGGNGAGTTT ATGAGGTGGT GTGGGGAGGG TGGGGGAGGC NGCGTGGGGG 300
NTTCTCTCCA CAGCAGGTGG GNGCAGGCAA GNNTTTGGNG GCCAGANGGN GNGCTTTGTN 360
CNTGGGN
367

```

## (2) INFORMATION FOR SEQ ID NO: 1977:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 353
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02254

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1977:

```

GATCTCCAGC CTTACCGCGG CTCGAAATGG ACCCCAACCTG CTCCTGCACC ACTGGTGTCT 60
CCTGCGCCTG CACCGGCTCC TGCAAGTGCA AAGAGTGCAA ATGCACCTCC TGCAAGAAGA 120
GCTGCTGCTC CTGCTGCCCC GTGGGCTGTG CCAAGTGTGC CCACGGCTGT GTCTGCAAAG 180

```

GGACGTTGGA GAACTGCAGC TGCTGTGCCT GATGTGGGAA CAGCTCTTCT CCCAGATGTT 240  
 AATAGAACAA GCTGCAACAAC CTGGATTTTT TTTTCAATAC GATACTGAGC CATTTGNNGC 300  
 ATTTCTTTTT ATGTTAAATA TGTGAGTGAC AATAAAACAA TTTTGAATTG AAA 353

(2) INFORMATION FOR SEQ ID NO: 1978:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 351
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02255

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1978:

GATCTNACCT GAGGTGCTGG GTGAGAAATC TTAGGGACCA GATGGAAGAG GGCCTGTNTA 60  
 TANNGACATT AGGAAGGAGG TTTGGGAAGG TTTGGGAGGG CAGCCTGACT TGTCTCCAGA 120  
 GAAAGTTAGA ACTGGTTGAC TTAGCAACCA AGGGNCACTG GGTCAAAGAC GAGGANTCAG 180  
 GACGTCGGTG CCTAGTGACT GAGCGCCANC CAGCCCATTT CTNTACATTG CCATGGGCTA 240  
 AACCCAGTGT GCTGTAAACT CTTGCAGTTC CTTGNGGTTA TGGGATTTTG NTATCTTGNC 300  
 NGTGTTTCCT CAANTAAAGG NNCTTGTTTG TAAAAATTGG GNAANAAGAA A 351

(2) INFORMATION FOR SEQ ID NO: 1979:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 342
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02256

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1979:

GATCTGTTTC CTACAGACTT CAAATTTGAC ACCCCAGTGG ACAAACCTACC ACAGCTATAA 60  
 ATTGAGGCAG CTAACGTCAA ATTCTTGAAT ACAAACCTTT GCCTGTTGTA CATAGCCTAT 120  
 ACAAATGCT GGGTTGAGCC TTTCATGAGG AAAAACAAAA GACATGGTAC GCATTCCAGG 180  
 GCTGAATACT ATTGCTTGGC ATNNNGTATG TATATACTAG TGAAACATAT TTAATGATTT 240  
 AAATTTCTTA TCAAATTTCT TTTGTAGCAA TCTAGGAAAC TGTATTTTGG AAGATATTTG 300  
 AAATTATGTA ATTCTTGAAT AAAACATTTT TCAAACCTCA AA 342

(2) INFORMATION FOR SEQ ID NO: 1980:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 340
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02257

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1980:

GATCAGCATG ACCAGCACTC GTTGGNGGAA AGGTGTCTNT NAGGAGACGT CTGGAGCTTA 60  
 TGAGAAAACA GATACTGATG GGAAGTTTCT CTATCACAAA TCCAAATGGA ACATAACCAT 120  
 GGCGTCCTAT GTGGTCCACA CCAACTATGA TGAGTATGCC ATTTTCCTGA CCAAGAAATT 180

CAGCCGCCAT CATNGACCCA CCATTACTGC GGTGTCCCTG GTGATGGNGA TGAGGAGCTN 240  
 CTGCGCTTCT CCAACTGACA ACTGGCCGNT CTGCANGTCA GAGGATGGNC AGTGTCTGTC 300  
 CNGGGGTACT GTGGCAGNCA GCGACAAGCA ACCTGNGTCN 340

(2) INFORMATION FOR SEQ ID NO: 1981:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 339  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02258

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1981:

GATCNTNTCG NCTCTGAAGA AGACATGGTG ACTGTGGTGG AGGACTGGAT GANNTTCTAC 60  
 ATCAACTATT ACAGGCAGCA GGTGACAGGG GAGCCCCAAG AGCGAGACAA GGCTCTGCAG 120  
 GAGCTTCGGC AAGAGCTGAA CACTCTGGCC AACCTTTTCC TGGCCAAGTA CAGGGACTTC 180  
 CTGAAGTCTC ATGAGCTCCC GAGTCACCCA CCGCCCTCCT CCTAGCTCAG GGACCCAGCC 240  
 CCTCCTCTCT GAGAACTCT GACCTTCATG TCCTTAGGCT GTGCTCCTGC CACTCTACCC 300  
 TGACACCTCA ATAAAGACCA GTGCTGGTTT TGTGGAAA 339

(2) INFORMATION FOR SEQ ID NO: 1982:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 334  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02259

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1982:

GATCCTTNCG TGCTGAATAT CTGAAAAGAG AAATTTTTC TACAAAATCT CTTGGGTCAA 60  
 GAAAGTTCTA GAATTTNAAT TGATAACAT GGTGGGTTGG CTNAGGGNAA GAGTATATGA 120  
 GGAACCTTTT AAACGACAAC AATACTGCTA GCTTTCAGGA TGATTTTAA AAAATAGATT 180  
 CAAATGTGTT ATCCTCTCTC TGAAACGCTT CCTATACTC GAGTTTATAG GGAAGAAAA 240  
 AGCTATTGTT TACAATTATA TCACCATTAA GGCAACTGCT ACACCCTGCT TTGTATTCTG 300  
 GGCTAAGATN CATTAAAAAC TAGCTGCNCT TAAA 334

(2) INFORMATION FOR SEQ ID NO: 1983:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 332  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02260

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1983:

GATCTTGTGC CAAGCTNAGG GTGTAGCGCT GCAAACGATG AAGCAAGAGT TTCTCATTA 60  
 CCTTGTGAAG CAAAAGCCAC AAATAACANA GGAACAACCT GAGGCTGTCA TTGCANATTT 120  
 CTCAGGCTNT TGGAGAAATG CTGCCAAGGC AGGACAGGAG TCTGCTTTGT GAGAGGGCAA 180

AAACTGATTT CAAAACTCG CCTGCTTTGG GNTTTAAATT ACTTCAGGGN AGANAGCAAA 240  
 CAGNNCTTTC ATTCGGTGTN ACTTTTCTCT NNAATTTTAA CTNNTTTAAC ACTTTTTGTC 300  
 GATTAATGNA ATGATAACG CTTTTATCGC NN 332

(2) INFORMATION FOR SEQ ID NO: 1984:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 331
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02261

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1984:

GATCCTGTGT GTGTGTACTA CCATAGAATG GGCCCCAAGA TGCATGATNA AGTGAGGAAA 60  
 AAAGCCCATG GTATCCTAAT GTTTGGAATG GAGAAAGTGT GTAGATGTAT GTGTGTGCAT 120  
 ATGTTTTTCAC ACAGACGTAT ACACGTGTAT ATCATATGTC CACCTGCATA TGCCTAGGAT 180  
 GTCTCTGGGA GGATATCTAG CAGCCCGGCA GCCTGAATTG CCTCTGGGAA GAGGGGTGGG 240  
 AATGACTTTT CAATGTACAC CTTTTGTACC TTTTGAATTT TCGTACCATG TACATGTATT 300  
 ATCTATTAAA AAATAGTTCT TAATTTTAA A 331

(2) INFORMATION FOR SEQ ID NO: 1985:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 326
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02262

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1985:

GATCACCCGG CAAGTTCAGG CTGAATTCTG AAGGCCAACT TGAGCAGACG GTCTCCATGG 60  
 CAACCCGAGC TTCAGAGGCC GAGGATGCCT CCCTTCTCAG CTTTCATGCAG GGCTACATGA 120  
 AGCAGGCCAC CAAGACCGCC AAGGATGCAC TGAGCAGCGT GCAGGAGTCC CAGGTGGCCC 180  
 AGCAGGCCAG GGGCTGGGTG ACCGATGGCT TCAGTTCCCT GAAAGACTAC TGGAGCACCG 240  
 TTAAGGACAA GTTCTCTGAG TTCTGGGATT TGGACCCTGA GGTCAGACCA ACTTCAGCCG 300  
 TGGCTGCCTG AGGACCTCAA TACCCN 326

(2) INFORMATION FOR SEQ ID NO: 1986:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 321
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02263

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1986:

GATCCTTACA TCTGCATCTA GTTATCAGTA ATTTAGATAT TGAGCTATTT TGATTTATAT 60  
 TTAAGAAATT AATACATTAG CACTGAAAGT TAAATAGTGT GTTTAAGGTA GTTAATTTCA 120  
 GGTGGAATGG GTTTTTTTTA ATGAAGTGTA AATAATACCA ATGTATAAGN GTATATTATN 180

ATATTAAATA TTATAGTAAA AAGGAATGTG TGGTATTTNC TNCAGCAAAA CTATTTTTGT 240  
 GATNTTTTNA TTCTCANCTT TNTATTTAAA AAATGTTACA TCTGCAGAAA AGTTGAAAGT 300  
 ATAATAAACT CTTCAGTTAA A 321

(2) INFORMATION FOR SEQ ID NO: 1987:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 321
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02264

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1987:

GATCTGCGCT GTGGCTGTCC CTGGACGTGC TGCAGCCCTC CTGTCCCTTC CCCCCAGTCA 60  
 GTATTACCCT GTGAAGCCCC TTCCCTCCTT TATTATTAG GAGGGCTGGG GGGGCTCCCT 120  
 GGTTCTNAGC ATCATCCTTT CCCCTCCCCCT CTCTTCCTCC CCTCTGCACT TTGTTTACTT 180  
 GTTTTGCACA GACGTGGGCC TGGGCCTTCT CAGCAGCCGC CTTCTAGTTG GGGGCTAGTC 240  
 GCCGAATTCT ACAATCCCGC TGGGGCGGCC GGGGCGGGAG AGAAAGGTGG TGCTGCAGTG 300  
 GTGGCCCTGG GGGGCCATTC N 321

(2) INFORMATION FOR SEQ ID NO: 1988:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 315
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02266

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1988:

GATCAAAAAT TTCTATCTGG AGAACCTCTG CGGACAAACC GAGTGCTTCC TGCAATTCCA 60  
 AGTCAACGAA GACACAGCAC AGCAGCAGAA GAGAGTGAAC ATTCTGCCAA CCCCACCAGT 120  
 GATGAAAATT AACTGTGGGC CACTCGCTGC AGAAATGTAG ATGAATATGT ATTTTCAACT 180  
 CTCAAAGGAC AAGATTACTC CAGTTTGTAA GAACGAAGAC CAATTTAGTA AGCTGCATTC 240  
 TATAAGCCAT CAGTTTTATA ACTCGAAATT CTTTATTCCA AATAAAGATA CTCCCTAAAT 300  
 AAGCACTTAG ANAAA 315

(2) INFORMATION FOR SEQ ID NO: 1989:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 312
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02268

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1989:

GATCAAAGCT GGGGCTGGAG GGTGGAGGTG TCAAGCCAGG CCAGGCAAAG GGAGATTTGA 60  
 AGCCAGAGCA GGTGGGCGCA TCTCCAGGA AACCTGCAT CATTCTTTCC TGGTGATTCT 120  
 TTCTTCTTT GTTATGGTTC ACATGAGTCT ATGGAGTGCT CATTCTACAT TCTCCGTTCT 180

TATCTTCATC CTATGCAACT TTAGACCGCT ACTGTTTTTT AAAAGTGATT TGATTTGNGG 240  
 CTGTAACCTT TTTTATTGT TGTTAGCTTT GACTTTGAAA TGTGTAATAA AGATTCAAGT 300  
 GAGCATTAGA AA 312

(2) INFORMATION FOR SEQ ID NO: 1990:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 310
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02269

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1990:

GATCTTGGGG TCCCCGACG ACGTGCTCGA GTTCCTGAAG GTGTATGAGA AGCACTCNGC 60  
 CCAGTGAGCA CCTGCCCTGC CTGCATCTGG AGAATTGCCT CTACCTGGAC CTTTGTCTC 120  
 ACACAGCAGT ACCCTGACCT GCTGTGCACC TTACATTCCT AGAGAGCAGA AATAAAAAGC 180  
 ATGACTATTT CCACCATCAA ATGCTGTAGA ATGCTTGGCA CTCCCTAACC AAATGCTGTC 240  
 TCCATAATGC CACTGGTGTT AAGATATATT TTGAGTGGAT GGAGGAGAAA TAACTTATT 300  
 CCTCCTTAAA 310

(2) INFORMATION FOR SEQ ID NO: 1991:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 305
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02270

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1991:

GATCCGAGTG AATGCAGTAA ACCCCACAGT GGTGATGACG TCCATGGGCC AGGCCACCTG 60  
 GAGTGACCCC CACAAGGCCA AGACTATGCT GAACCGAATC CCACTTGGCA AGTTTGCTGA 120  
 GGTAGAGCAC GTGGTGAACG CCATCCTCTT TCTGCTGAGT GACCGAAGTG GCATGACCAC 180  
 GGGTTCCACT TTGCCGNTGG AAGGGGGCTT CTGGGCCTGC TGAGCTCCCT CCACACACCT 240  
 NAAGCCCCAT GGGCGTGCTC ATCCTACCCC CAATCCTCC AATAAACCTG ATTCTGCTGG 300  
 CCAA 305

(2) INFORMATION FOR SEQ ID NO: 1992:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 301
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02271

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1992:

GATCGAGACA CGTGATGGGA AGCTGGTGTC TGAGTCCTCT GACGTCCTGC CCAAGTGAAC 60  
 AGCTGCGGCA GCCCTCCAG CCTACCCCTC CTGCGCTGCC CCAGNNNCTG GGAAGGAGGC 120  
 CGCTATGCAG GGTAGCACTG GGAACAGGAG ACCCACCTGA GGCTCAGCCC TAGCCCTCAG 180

CCCACCTGGG GAGTTTACTA CCTGGGGACC CCCCTTGCCC ATGCNTCCAG CTACAAAACA 240  
 ATTCAATTGC TTTTTTTTTT TGGTCCAAAN TAAACNTCA GTTAGCTNTG CCAATTTNAA 300  
 A 301

(2) INFORMATION FOR SEQ ID NO: 1993:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 311
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02272

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1993:

GATCTGAACCT CCAGCTGCCC TACAACTCC GTCACAGCTT TTNTTCTCAC TTCATGTGAA 60  
 AACTACCCCA GTGGCTGACT GAATTGCTGA CCCTTCAAGC TCTGTCCTTA TCCATTACCT 120  
 TAAAGCAGTC ATTCCTTAGT AAAGTTTCCA ACAAATAGAA ATTAATGAAT AAATGTTGAC 180  
 ACTTTGATAG CACTGATATG GAGATTATCC TTTCATTGAG CCTTTTATCC TCTGGTCTTC 240  
 TTTGAAGAAC CCCTCACTGT CACCTTCCTG AGAATACTCT AAGACCAATA AATACTTCAG 300  
 TATTTTCAGAA A 311

(2) INFORMATION FOR SEQ ID NO: 1994:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 297
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02274

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1994:

GATCTAAAAC TNAAGAACAA ATTCTATTTA TTTATTATTG GAAAATNAAA AGCAACTCAA 60  
 AACAACTTCA ACCTGGAGGT GCATTTATAA TTCATTCTGC ATTTATTCTG TAAAAAGGTG 120  
 ACTGTTTTAT AAATNCTTTT AATTTATGTT CAATATATAT AAAAAGTGCA TCTNTTTTNT 180  
 TTTTCCCTTT TTTCTCCATA ATTTTAAGAA ATGAATNNGN TTGTTGTCAA CACATTTGTG 240  
 AAGTCTTGTG CTATAAAGGG GAACTTCCCC TAATAAAAGG GCCTTGGAAG CCTCAAA 297

(2) INFORMATION FOR SEQ ID NO: 1995:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 293
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02275

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1995:

GATCTAGGAG AGGCGGCTCT GAACGATTAC CTGCGGGTCA AGACAGTNAC CTTCAATAC 60  
 TGAAGAAAGG TCTTTTAAAG AAGAAAGTCC CTGCCCCTCC CTCGTGGCTG GGGCCCCCTC 120  
 CCTNTTAAGC CTGGNTGCAC AGCACCTCCC ACCTGGGGGG CTAGTGGAAG CCCTCCTGCN 180  
 TGCACACCAT GTTGCNTCT TGGACGCCCT CTTTCAGTN ANAAGCAGCC CTTGGNTGGN 240



TNAGGTGTGC CCCTCCCAGG NAGAATAAAG CTTCTAAAGA NAGACCGTCC AAA

293

## (2) INFORMATION FOR SEQ ID NO: 1996:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 290
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02276

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1996:

```
GATCAGGAGG AAGTGAGCAG TCGCCTGCCT GCAGCAGGNA GCTTTCTACT CCTGCCTCAT 60
GCGTACGTCC CACAAATGCA GGTGTCTCTGA GCACCACACC CAGTGGGAAG AGTGTGGGGG 120
AGGCGCACAG TGTGAGCCCG CCCCCACGTC GTGGGTAAAC ATCTGTTATC AACTGCTGT 180
CGTTGTTGTG GGTGTTGGTCC TTGAACAAGA TGTGGGCCCTT GCAAGATGGG AGAGTAAACC 240
TTGAAGGGCT TTATTAAAGA AATAAAAAAG NACTTNTTGT ATCTTTTAAA 290
```

## (2) INFORMATION FOR SEQ ID NO: 1997:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 289
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02277

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1997:

```
GATCCTGAAG AGGATGGTGT GGGAATGCAC TTTGAGAAAT GNCTATCTAA CCTTTNGAAA 60
CTTAAAGTGT TCCAGTCCC CATTATACTT TTTAAAACCA CAATAGTCAC ATAAGGAAAT 120
AATCTAGCAG CTCATCCCTT TGCATCCAAT GTTTGAACTA TTTTGTAGAAA GTGCTCTNGT 180
TCTGTCAAAG AACCTTCAAC ACAGAAAAAT ACANAAATGA GGGAAATGTA TAATTCCTGC 240
AGGAGAGAAG TGTGTTAAC ATGTCAATAN ATGTTCTTAG ANAGTTAAA 289
```

## (2) INFORMATION FOR SEQ ID NO: 1998:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 279
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02278

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1998:

```
GATCAGAGAA GCTAGGAGAG CTCCAGCAGG GGCACAGAGG ATTGGNNGCA GGAGGAGTCT 60
GGAACACAGC CTTTCATGCCC CCTGACCCCA GGCCGACCCT CCCCACACCC TAGGGTACCC 120
CAGTCGTATC CTCTGTCCGC ATGTGTGGCC AGGTCTGACA AACACCTGTA GATGACTGNT 180
GGCCNAACCT GGGNCCTGNN CAGGAGGTTG GAGCAGNAAG GGCTCTCCCT AGGGGTGGTG 240
TNTCTCCTCT AGGGTATTGG GNTGCATGTN NTGCACTNN 279
```

## (2) INFORMATION FOR SEQ ID NO: 1999:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 274
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02279

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1999:

```
GATCATGAAG GAACACATAG CACCAAGAGA GGCCATGCTA AATCTCGCCC TGTCAGAGGT 60
ATCCACACTT CTCCTTTGGG GAAGNCTTCC CTGTCCCCCT TGCATTTCTT TCTTAAGTCT 120
CTGTTACACG TCATTGAAAC TACACTTTTT TGGTCTNTTT TTNTGCTAGA CTGTAAGTTC 180
CTTGGGGNCA GGGCCTTTGN CTGNCTCATC TCTGTATTCC CAAATGCCTA ACAGTACAGA 240
GCCATGACTC AATAAATACA TGNTAAATGG NAAA 274
```

## (2) INFORMATION FOR SEQ ID NO: 2000:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 280
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02280

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2000:

```
GATCTTAACA AAATTCGTAG CAGTGGAACC TTGAAATGCA TGTGGCTAGA TTTATGCTAA 60
AATGATTCTC AGTTAGCATT TTAGTAACAC TTCAAAGGTT TTTTTTTGTT TGTTTTCTAG 120
ACTTAATAAA AGCTTAGGAT TAATTAGAAG AAGCAATCTA GTTAAATTTT CCATTGTGAT 180
TTNATTTNCT TGAATACTTT TTNCATAGTT ATTTGTTTAA AANGATTTAA AAATCATTGC 240
ACTTTGGTCA GAAAAATAAT AAATATATCT NATAAACAAA 280
```

## (2) INFORMATION FOR SEQ ID NO: 2001:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 271
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02281

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2001:

```
GATCTGCATG TTCTCTCTTT GGGTTCAAGC ATTTCTTAC AGAAGAGCCA CCGTGGAAGT 60
CATGGGTAAA TATGTGTTGA ATTGGTAACT CCCTCTTGGA GAATTTCTTG TGAATTACAC 120
AGCAATAGGG GAACTCATTT AACTGGAGAC ATAATCTCAA TTTGTAAAGT GTGGCCCAT 180
TTCTAACATT TTNANNTTGC ATACCCTCCC CTCTCTTCTC GATTGATGAA ACTAACAAAG 240
AGGTTAATAA AAGCCCATCT CGTCATGTAA A 271
```

## (2) INFORMATION FOR SEQ ID NO: 2002:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 270
- (B) TYPE: nucleic acid

- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS02282
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2002:

```

GATCTTACCC GTGACAAAAT GTGTTCCATG GTCAAAAAAT GGCAGACAAAT GATTGAAGCT 60
CACGTTGATG TCAAGACTAC CGATGGTTAC TTGCTTCGTC TGTCCTGTGT TGGTTTACT 120
AAAAAACGCA NCAATCAGAT ACGGAAGACC TCTTATGCTC AGCACCCNCA AGGTNCGNCN 180
AATNCGGGAG AAGATGATGG GNAATCATTG GCCCCGTGAG GGTTCAGGC AAANTTTGCT 240
TTTGAANGNA AGGGGGGNNNA ATAAATTNGN 270

```

(2) INFORMATION FOR SEQ ID NO: 2003:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 265
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS02283
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2003:

```

GATCCCAACA GAAGAACATC GGAGACCAGA GAGAGGAACT CAAAGGGGCG CTGCCTCCGG 60
GTCTGGGGTC CTGGCCTGCG TGGCCTNTTG GCACGTGTTT CTCTTCCCCG CCCGGCCTCC 120
AGTTGTGTGC TCTCACACAG GCTTCCTTCT CGACCGGCAG GGGCTGGCTG GCTTGCAGGC 180
CACGAGNGTN GGCTCTACCC NACACTGGCT TTGCTGTGTA TACGCTTNTT GCCCTTAAAT 240
AAATATGCAC ATTTTATCCA TTAAA 265

```

(2) INFORMATION FOR SEQ ID NO: 2004:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 249
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS02285
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2004:

```

GATCCACATT GTTAGGTGCT GACCTAGACA GAGATGAACT GAGGTCCTTG TTTTGTTTTG 60
TTCATAATAC AAAGGTGCTA ATTAATAGTA TTTCAGATAC TTGAAGAATG TTGATGGTGC 120
TAGAAGAATT TGAGAAGAAA TACTCCTGTA TTGAGTTGTA TCGTGTGGTG TATTTTTTAA 180
AAAATTTGAT TTAGCATTCA TATTTTCCAT CTTATTCCCA ATTAAAAGTA TGCAGATTAT 240
TTGCCCAAA 249

```

(2) INFORMATION FOR SEQ ID NO: 2005:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 242
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02287

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2005:

```
GATCAGGAGC AACAGACCC TGCAAGGTCC TCCAGGCCTG GGGACAGGAA AGCCACTGAC 60
CCAGCCC GGG AGGCAGAAC AGGCAGCCTC CNTGGCCCCA GGCAGCCCTT TTCCCTCCAG 120
TGGCACCTCC TGGAAACAGT CCACTTGGGC GCAAAACCCA GTGCCTTCCA AATGAGCTGC 180
AGTCCCCAGG CCATGAGCCT CCCGGGAATG TTTAATAAAG GGCCTGGCCA CCTCTCCTCA 240
AA 242
```

(2) INFORMATION FOR SEQ ID NO: 2006:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 239

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02288

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2006:

```
GATCTAAGTT TGATAAGAGC CTGTGTGGTG AGTATGGTGT GTATGTGAAG GTGACTTCCA 60
TCCAGGACTG GGTTCAGAAG CCATAGCTGA GACTAATGCA AGGCTGGCGA AGCCTTGCTG 120
AAAGAAGATT TCAGCTGGAG AGGCAAAGTG GCGGGAGTGG CAGAGTGGTG CGTAAGTGTG 180
GTTAAGTNTG GGTCCANCCT GCATTCTGAG CAATCAATAA AGTNTTCTT TTNCCCAA 239
```

(2) INFORMATION FOR SEQ ID NO: 2007:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 238

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02289

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2007:

```
GATCCTGAAG GTAATACAAT CAGCAACATT AAAACATTTT TTTCAATTTT TGTTACTGAA 60
GTAAAATAAG CATTCCACAT TTATAACAA CAGGTTATTT CAGGAAGATA TTTTCATATC 120
TTACAGCGAA AAGTCTTTT AAACAGAAGC ACCTAATATT TAATATATTA TTTTGTAAT 180
TATTGACTAA CAAATGATG ACTCGACTGG CGAAATAAAA TACAGTTTTT AAATCAAA 238
```

(2) INFORMATION FOR SEQ ID NO: 2008:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 236

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02290

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2008:

```
GATCCTGAGA NCTTCAAGCT CCTGGNNAAT GTNCTGGTGA CCGTTTTGGC AATCCATTTC 60
```

GGCAAAGAAT TCACCCCTGA GGTGCAGGCT TCCTGGCAGA AGATGGTGAC TGGAGTGGCC 120  
 AGTNCCCTGT CCTCCAGATA CCACTGAGCT CACTGCCCCAT NATGCAGAGC TTTCAAGGAT 180  
 AGGCTTTTATT CTGCAAGCAA TCAAATAATA AATNTATTCT GCTANGNNAA AACAAA 236

(2) INFORMATION FOR SEQ ID NO: 2009:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 235
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02291

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2009:

GATCATTACC ATTACAGGAA CACAGGACCA GATACAGAAT GCACAGTATT TGCTGCAGAA 60  
 CAGTGTGAAG CAGTATGCAG ATGTTGAAGG ATTCTAATGC AAGATATTTT TCCTTTTSTA 120  
 TAGTGTGAAG CAGTATTCTG GAAAGTTTTT CTAAGACTAG TGAAGAACTG AAGGAGTCCT 180  
 GCATCTTTTN NNGTTTAANC TGCTTCTGTT NAAAANGCCA NCATTCTCT GTTTN 235

(2) INFORMATION FOR SEQ ID NO: 2010:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 233
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02292

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2010:

GATCCTGAAG AACTTCAAGC TCCTGGGAAA TATGCTGGTG ACCGTTTTTG CAANNNGTTT 60  
 CGGCAAAGAN TTCACCCCTG AGGTGCAGGC TTCCTGGCAG AAGATGGTGA CTGGAGTGGC 120  
 CAGTGCCCTG TCCTCCANAT ACCACTGAGC TCACTGCCCA TAATGCAGAG CTTTCAAGGA 180  
 TAGGCTTTAT NCTGCAAGCA ATACAAATAA TAANTCTNTC CTCCTAAGAG AAA 233

(2) INFORMATION FOR SEQ ID NO: 2011:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 229
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02293

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2011:

GATCCTTGAC GAGGAGAGAG AGCTTGAAAA GCTGTTTCAG CTGGGCCCCG CTTACCTGT 60  
 GAAGATGCCC TCTCCACCAT GGGAATCCAA TCTGTTGCAG TCTCCTTCAA GCATTCTGTC 120  
 GACCCTGGAT GTTGAATTGC CACCTGTTTG CTGTGACATA GATATTTAAA TTTCTTAGTG 180  
 CTTCAGAGTT TGTGTGTATT TGTATTAATA AAGCATTCTT TAACAGAAA 229

(2) INFORMATION FOR SEQ ID NO: 2012:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 223  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02294  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2012:  
 GATCTGGCAT AAATAAATTN AATAAATATT TTAATGCTCC ATTTTTTAAT GTTGCTTTTC 60  
 AATAAAGA ATGGTGTAGA CTTGTTTTGC AACTNTAAGG TACCCAGTTA TCAATTTAAT 120  
 CAATGTTTTA GAGNAGGAAA TNATTTTTTN GGTAGAAATT GTTCANGAAC CTTAATTGAA 180  
 TGCATTAAAT GATGGTGGCA AAATAAACCT ATTAGAAATT AAA 223

(2) INFORMATION FOR SEQ ID NO: 2013:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 221  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02295  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2013:  
 GATCAATGCC CTCATCTGCA ATGTAGGGGC CGGTGGACCT GCTCCAGCAG CTGGTGCTGC 60  
 ACCANAGGAG GTCCTGCCCC CTCCACTNCT GCTGCTCCAG CTGAGGAGAA GAAAGTGGAA 120  
 GCAAAGAAAG AAGAAATCCGA GGAGTCTGAT GATGACATGG GCTTTGGTCT TTTTGACTAA 180  
 ACCTCTTTTA TAACATGTTC AATAAAAAGC TGAACTTTAA A 221

(2) INFORMATION FOR SEQ ID NO: 2014:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 219  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02296  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2014:  
 GATCTGTAGT GTCATGGGTG CTGCCGCAGA CGNAAGTTGA NCTGGGGGTG CCTGCAGCCT 60  
 TCCACTCCTG CCCC GCCTCA CCCACATGC TCCCTGTTTC TAATGCTTTC TCTAACTTCC 120  
 TCACCCCTTA ACCAAAAAGG TGTGTTNCT TTTGTNCATA TAGCCATTCT NAAATATNAG 180  
 TAATGTAAAC CTNACTTTAT TAAAAAATTA TCCAGCAA 219

(2) INFORMATION FOR SEQ ID NO: 2015:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 216  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02297

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2015:

GATCAGGTTT GTTGAGTTTT TTAGCCTAAT TCCAAAGCAT GGAAGAGTGC TCTAGGTAGG 60  
 AAAGAAAGCT TTTTCTTACG ATTTGTAGCT ACCTACTGTG CCTGACTTGG TGCCTGTGTG 120  
 AGGATTAAGC CCTTAGTCTG CTCTTGCAAT TATTCAAATG ACAAATTAAA TTTGCTTTTG 180  
 TAATAACAAT AAAAGTTGTC ATCTTCCCTT TTGAAA 216

## (2) INFORMATION FOR SEQ ID NO: 2016:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 210  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02298

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2016:

GATCCTGCCA TCACTGCTGC AAAGAGAACA CGAGACTCAA GGAAACTCCT CCTCCACCGC 60  
 AGCCCAACTG TGCCTGCTAG TNTCCCGTG CACACAGGCA GCTCCAGGGG GCTCTGGTTG 120  
 CCAACAAACA GCATTTGTAA ATGGTCTATT AGCCTTCATT TATACTGCCT AACAATTATT 180  
 TGAAGGAATA AATTGATGTC AATGGCTAAA 210

## (2) INFORMATION FOR SEQ ID NO: 2017:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 219  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02299

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2017:

GATCTAGCCT GATTCCTGCG TGTCCGAAAG AACTTAACGT TTAAAGGTN ATTGTNAAGT 60  
 AACTGTGTGG GGTTCCTAATG CCAGTTTCCT AATTCCATCT CACTGGAGAT GTTTAAAGTT 120  
 GGCCTCTATC CTAATGACTC AAAACTTGGT TCTTAACCTAC CATGATTGCT TTTNAGGGCC 180  
 CGGAATTATA AATATATATN ATATTTAANT TGTTTGAAA 219

## (2) INFORMATION FOR SEQ ID NO: 2018:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 208  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02300

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2018:

GATCCGGGGC ACAAAGAGGG TGGGGAACAT GGGGGCTATA CTGGGGAAAG CAGCCATGCT 60  
 CCCCCNACC TCCAGCCGAG CATCCTTCAT NAGCCTGCAG AACTGCTTTC CTATGTTTAC 120  
 CCAGGGGACC TCCTTTCANA TGAAGTGGGA AGAGATGAAA TGTTTTTCCA TATTAAATA 180

AATAAGAACA TTAAAAAGCA ACCCCAAA

208

## (2) INFORMATION FOR SEQ ID NO: 2019:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 202
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02301

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2019:

```
GATCTCAAGG CTGCCGTACT GGAGGCCATG ACTGCCTTCC GCAGAGCAGG TGCTGACATC 60
ATCATCACCN ACTACACACC GCAGCTGCTG CAGTGGCTGA AGGAGGAATG ATGGAGACAG 120
TGCCAGGCCC AAGAACTAGA ACTTTAAAC GTTCCCGGGG CCTCAGACAA GTGAAAACCA 180
AAGTAAATGC TGCTTTTAGA AA 202
```

## (2) INFORMATION FOR SEQ ID NO: 2020:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 224
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02302

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2020:

```
GATCTTCTTT GAGACAAGGC AGGCTGTGGC CATGTAGCCC CATCACACTG TGTTTGTNAT 60
TGTCTGTGTG TCTGTCTCCC CCACCAGACT GTGAGCTCCA TGAGGGCAGG GACCGTGTCT 120
TGTCCGTTCT CTGTATCCCC AGTGCTTGA ACAGAGCGAG TGCTCACTGT GTATTTAATA 180
AATGGACAAA GAGAGAGGAT GACCCTCACG GGGAGACAGA GAAA 224
```

## (2) INFORMATION FOR SEQ ID NO: 2021:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 195
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02303

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2021:

```
GATCGGCAAA TGCATTGGCC TCCTGGTTAA GCACGTTTTG GGGATAATTT TCTCTTCTTT 60
AGGCAATGAT TAAGTTAGGC AATTTCAGT ATGTTAAGTA ACACACTTAT TTTTGCCTGT 120
GTATGGAGAG ATTCAAGAAA TAATTTTAAA ACCGCATACA TAATAAAAGA CATTGTTGCA 180
TGGCTTATAG TCAAA 195
```

## (2) INFORMATION FOR SEQ ID NO: 2022:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 193
- (B) TYPE: nucleic acid



- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS02304
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2022:

```
GATCTGTGCC GTGGTCCTGA GGCAGTTGTC TCCACACAAG TACCTCTAGA ACAATCCCCT 60
TTTTTCCATC AAGCTGTAGC CTGCAGAGAA TGGAAACGTG GGAAAGGAAT GGTATGTGGG 120
GGAAATGCAT CCCCTCAGAG GACTGAGGCA TAGTCTCTCA TCTGCTATTG AATAAAGACC 180
TTCTATCTTG AAA 193
```

(2) INFORMATION FOR SEQ ID NO: 2023:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 192
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS02305
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2023:

```
GATCTNCCCT GCATCCTGAC CAAGACCCCA ACCGTGCCCC CAACAGACTC CCCCTGGGAG 60
ATTCAGCCTA TTCACTGATG AGGAAAGTGA AGCCGGGTCT CCTGTCTCCC CAAATTCATT 120
GCACCTACGA TATAGTCCAG GATTGGGTAG CAAGATTAAA CACAAGCGCT TCAAATTGAT 180
GAAAACCACA AA 192
```

(2) INFORMATION FOR SEQ ID NO: 2024:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 191
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS02306
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2024:

```
GATCCCTAAC TACCAACCCC CTGAAGGCAG GTACAATGAC ATCACCAAGG TGTACACACA 60
AGTGGAGTTT AAGAGATAGA CTTGCAGGCT GCTATCCTTA ACATGCTGCC CCTGAGAGTA 120
GGAATGACCA GGGTTCAAGT CTGCTTTCCA CAGAATCAGG CATNCTGTTA ATAAATACTG 180
GTTTAATCAA A 191
```

(2) INFORMATION FOR SEQ ID NO: 2025:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 186
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS02307
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2025:

```

GATCGTATTT CAGTTTTTTTGG GGTCAATATA TGAACAATGT GTGAACCAGA ACGTATGGTA 60
TTTGACATCA AAGCTATGTC TTGGCATATG TTTATGTTGA TATACTTGAA TTCATTTAAA 120
ATGGAATGTT AATTACATCG ACTTCTTACT ATAAAAAATA AAAAGTTATT GTCCAGTGCA 180
CAGAAA 186

```

## (2) INFORMATION FOR SEQ ID NO: 2026:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 380
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02308

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2026:

```

GATCCATTGA GAAAGAGATG ATGTAATAAA TAATTAAGAT TAGTAATAAT ATTATCAGGG 60
GTGATTATGA CCAGTTGAAT AATCTCTTTC CCTTGAATTA TTTAGCTAAC AAATTAAGTC 120
TCCCAAATAT NTAAANTAAT GTAAANTCAT ATTTNACTGC CCATTATTAA CTAAATATT 180
TNTGTNTGAC TTTGAGCACC AACTGGTAAT ACTAGTAAAT ACCCATGTCA TGCAGATGGC 240
TGGGCGAATA AGAGATGTCT AAAAATATGC ACTGGTCTTG GGAAACATGG CACAAGTAAG 300
GNTATCATAT ATGANGTCTG GTTTATTTTA TGTCTGATTT CTTTTTGANT GAGTAGTTNG 360
GGACTCCANT TCTAAGGNTN 380

```

## (2) INFORMATION FOR SEQ ID NO: 2027:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 183
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02309

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2027:

```

GATCTCTCCA CAGGGCTTGT TTTCCAAAGA AAAGTATTGT TTGGAGGAGC AAAGTTAAAA 60
GCCTACCTAA GCATATCGTA AAGCTGTTCA AAAATAAGTC AGACCCAGTC TTGTGGATGG 120
AAATGTAGTG CTCGAGTCAC ATTCTGCTTA AAGTTGTAAC AAATACAGAT GAGTTAAAAG 180
AAA 183

```

## (2) INFORMATION FOR SEQ ID NO: 2028:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 188
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02310

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2028:

```

GATCTGCAGC TGCCTGGGA CTTGAATCCA TGCAATGTTT AGAGTGTGAA GTCAGTTACT 60
TGTTGATGTT TTCTTACTGT ATCAATGAAA TACATATTGT NATGTCAGTN CTTGCCAGGA 120

```

ACTTCTCAAC AAAATGGAAT TTNNTTTTNC AGTATTTCAA TAAATATTGA TATGCCCAGC 180  
CTGNTAAA 188

(2) INFORMATION FOR SEQ ID NO: 2029:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 178
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02311

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2029:

GATCCATGCT GATTTTTATT GCACAAGAAT TAGGTTTGAA CTCTTGAGCT GGAACCTCAG 60  
CAAAC TAGAG TATATATTGT TCAGTATNNC TTTGGAAACA TTTCATTAAT GTACTTGTCT 120  
TACANAAATT TCTGAACTTT AGTAAAAAAA AAATAAAGTT AAACTTTTAA AACTCAA 178

(2) INFORMATION FOR SEQ ID NO: 2030:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 176
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02312

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2030:

GATCGGTATG TTTTGAAAAG AGTAATTTAA CTTTGGGGTG CCAGGAAATG GGTTTTCTCA 60  
AAGTCCATTG CCGGCAATGG GCAGGCCTGC AAATACTGGC ACAGAGCATT AATCATACAC 120  
CTTATTAACG GTGAGGTGAA TAACTTTGAA ATAAAGTTTT AGAGAAATGT TTCAA 176

(2) INFORMATION FOR SEQ ID NO: 2031:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 174
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02313

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2031:

GATCCGCCTG GCAGCCATTG CAGAGTCAGG GGTAGAGCGG CAAGTACTTT TGGGAGACCA 60  
GATACCCAAA TTCGCCGTTG CCACTTTACC ACCCGCCTGA ATCCTGGGAT TCTAGTATGC 120  
AATAAGAGAT GCCCTGTACT GATGCAAAAT TTAATAAAGT TTGTCACAGA GAAA 174

(2) INFORMATION FOR SEQ ID NO: 2032:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 172
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02314

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2032:

GATCCAGAAG TTATGGTGGC TTTCCAGGAT GTGGCTCAGA ACCCAGCAAA TATGTCAAAA 60  
TACCAGAGCA ACCCAAAGGT TATGAATCTC ATCAGTAAAT TNTCAGCCAA ATTTGGAGGT 120  
CAAGCGTAAT GTCCTTCTGA TAAATAAAGC CCTTNTCTGAA GGAAAAGCAA CN 172

## (2) INFORMATION FOR SEQ ID NO: 2033:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 170  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02315

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2033:

GATCTCAGGA CCTCTTTACA CTTTTCAAAG TTACTIONAAGA CTCTGAAGAG CTTTCTTTA 60  
TGAGGTTATA TCAATATTTA CTACATTAAA AATTAAACA GAAAATTTAA AGTAGGTATT 120  
TATTGATTTA TTAAACAAT AAAAATAATA AAGTATTACA TGCTAACAAA 170

## (2) INFORMATION FOR SEQ ID NO: 2034:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 169  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02316

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2034:

GATCCGTTTG CTGTGAACCC TATGTTATTT CCATGTGTCA AGTGGGTCTT GTGTTGCCAG 60  
CTTCTATTTG AAGATTGCGT TTGCACTCAG TGTAAGTTTC TGTCAGCAGT AGTTTCACCC 120  
ATTTGCATGG AAAAATTTAA AGCTAATAAA GCAATTTAAA AAGCACAAA 169

## (2) INFORMATION FOR SEQ ID NO: 2035:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 159  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02317

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2035:

GATCCACAG TCTCAGCCCT GCTTACTAGT GAGAAAGACT GGCAAGGTTT CCTAGAGCTC 60  
TACTTACAGA ACAGCCCTGA GNCCTGTAAC TATGGGCTCT GAAGGGGGCA GGAGTCAGCA 120  
ATAAAGCTAT GTCTGATATT TTCCTTCACT AATATGAAA 159

## (2) INFORMATION FOR SEQ ID NO: 2036:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 151
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02318

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2036:

```
GATCCGGGGN AGCTAGGATG GGGAACCTGC CACAGCCAGA ACTGAGGGGC TGGCCCCAGG 60
CAGCTCCCAG GGGGTAGAAC GGCCCTGTGC TTAAGACACT CCTGCTGCCC CGTCTTGAGG 120
GTGGCGATTA AAGTTGCTTC ACATCNTCAA A 151
```

## (2) INFORMATION FOR SEQ ID NO: 2037:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 148
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02319

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2037:

```
GATCTAACAT CAAACTAACA GCTTTCAGAA AGGAGACTNT TGNCATCTTT TCACCAAGGA 60
GTATATTTGT AGAGTAATAT ATGTGTGGAA NTTTNAATTT ATATCATTTG ACATGATTTA 120
TGAGGCTTAT TTAAGCTGGA GTNNNCCN 148
```

## (2) INFORMATION FOR SEQ ID NO: 2038:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 143
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02321

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2038:

```
GATCTGGTCT AGTTAACCTA GAAGTATTTT TGTCTCTTAG AAATACTTGT GATTTTTATA 60
ATACAAAAGG GTCTTGACTC TAAATGCAGT TTTAAGAATT GTTTTTGAAT TTAAATAAAG 120
TTACTTGAAT TTCAAACATC AAA 143
```

## (2) INFORMATION FOR SEQ ID NO: 2039:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 142
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02322

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2039:

```
GATCTGGAGG AGGTGAAGGC CAAGGGACCT GCTTCTATTA GCCCTTCTCC ATGGCCCTGC 60
CATGCTCTCC AAACCACTTT TTGCAGCTTT CTCTAGTTCA AGTTCACCAG ACTCTATAAA 120
TAAACCTGA CAGACCATGA AA 142
```

(2) INFORMATION FOR SEQ ID NO: 2040:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 156  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02323

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2040:

```
GATCGAAAGA AGAACATCAT GAAAAANAAA TNACTTTGC TTAGTGGATT AGACTCCTTT 60
GCTGAAGTCA GTTATTCATC AAGAATGCAA TTAGACTAAT TGTGAATAAA TGATTGAATG 120
AAGATATAAT AAATAAAAGC TATAATTATA GATAAA 156
```

(2) INFORMATION FOR SEQ ID NO: 2041:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 138  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02324

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2041:

```
GATCTCTCCT TCAGTCTGCT CTGTTTAATT CTGCTGTCTG CTCTTCTCTA ATGCTGCGTC 60
CCTAATTGTA CACAGTTTGT TGATATCTAG GAGTATAAAG TTGTCGCCCA TCAATAAAAA 120
TCACAAAGTT GGTTTAAA 138
```

(2) INFORMATION FOR SEQ ID NO: 2042:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 137  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02325

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2042:

```
GATCCACAGG CAGAGCCAAG GGAAGGTGTG ATTCTNTGAG GAAAGAGTGA TTCTGATATA 60
TGTAATTGTC ACATTGGTGT TGGACACATT TGCGCCAAAA GTATGGTAAT NCTATTATNA 120
AATAATTCTC TGAGAAA 137
```

(2) INFORMATION FOR SEQ ID NO: 2043:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 134

(B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02326  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2043:  
 GATCCAACT GGAANCAGCT CAAATNTCCA TCAATAGCAG AAAGATAAAC AAATGTNGGG 60  
 ATGTNCAGAG CTTGAAATAT GACACANTAT AAAAGGACAA ACTATTAAAA CTCACAACAG 120  
 CATGGATAAN TCTN 134

(2) INFORMATION FOR SEQ ID NO: 2044:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 133  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02327  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2044:  
 GATCCAAGCA GGCCTTGAAT GCAATNGCAA GTGGTTTATA GTCCCTTGCT CTTACAACTT 60  
 GCAGGGACAT GTGGTTATTT AGAAATTGTG ACTGAGCGGA CCCAAGAATN TAAATAATAT 120  
 TCATAAACCT AAA 133

(2) INFORMATION FOR SEQ ID NO: 2045:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 132  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02328  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2045:  
 GATCACCTGT AGGGAAATGA AGTGTNCCCT GGAACAAGGA GGTGGGGGCA NTGTGGCCCC 60  
 TTCCCCAACT GGGGGTGGAC AGCTGTNTCC TGGGGTGGGT TGGTATTAAA GAGGAAAGCN 120  
 ATTTTTTGA AA 132

(2) INFORMATION FOR SEQ ID NO: 2046:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 130  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02329  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2046:  
 GATCCCAGGA ACTGTGGGCA CCCATTTTCT GTGTCTCCA GCCCATTTCC ACTCCTAGTT 60

TGTCATGGAT AATNTTGTGTT GTTCCCTGTG TGATTTTTC CATCAAAATA AAAATTTGAG 120  
 ACTCGTTAAA 130

(2) INFORMATION FOR SEQ ID NO: 2047:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 130
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02330

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2047:

GATCCAAGGT CAAAAAACA AATNCATCAA TTCAGCACAC CACCAACTNA NAGGCTAAGC 60  
 ATCTTACTGC TAATTCATTG ANGCTGCCAT TTGTCAAGTG CCAAATTGAN TTATTGATTT 120  
 GTCAATANTN 130

(2) INFORMATION FOR SEQ ID NO: 2048:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 130
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02331

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2048:

GATCAGATAT ACAAAAATAA AGTTTTTINAT TTCATTAAAT ATTTAATTAA AACTGCTAAG 60  
 TTTGAAAATT TTTACCAAGA AATANTTTTN ANAAATTTTN CTAAGTTGAT AAAGGCTTTT 120  
 AAGCAATAAA 130

(2) INFORMATION FOR SEQ ID NO: 2049:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 129
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02332

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2049:

GATCTATATT CCCTTATTGC ATTTTCCTTA TGTATAATTT TCCAGATGGT GATGTTACTT 60  
 TTCAGTGTAC TCATATGTCT CATTTTCATC TAAAATTAAA TGCGAGGAAA CAAGGACTGC 120  
 ATAGAGAAA 129

(2) INFORMATION FOR SEQ ID NO: 2050:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 129
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear



## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02333

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2050:

GATCAAAAGC TTATTCNTTT TTTTTTTTTT TTCTTTGGTG TAAAGCCAAC ACCCTGTTTA 60  
 AAANANATAA TTTTTTTTAA TCATTTTGCN TCTTTTTTTT TTGCTTCATT NAATAAAAAAN 120  
 TGGAAAGAN 129

## (2) INFORMATION FOR SEQ ID NO: 2051:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 148  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02334

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2051:

GATCTGAACA CCACAGCCCC TGTACTTGGG TTGCCTCTTG TCCCTGAACT TCGTTGTACC 60  
 AGTGCATGGA GAGAAAATTT TGTCCTCTTG TCTTAGAGTT GTGTGTAAAT CAAGGAAGCC 120  
 ATCATTAAAT TGTTTTATTT CTCTCAAA 148

## (2) INFORMATION FOR SEQ ID NO: 2052:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 132  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02336

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2052:

GATCCANCTN TNTCAACCTC CCAAGTAGGA TTACAAGCAT ACGCCGACGA TGCCCAGAAT 60  
 CCAGAACTTT GTCTATNACT CTCCCCAACA ACCTAGATGT GAAAACAGAA TAAACTTCAC 120  
 CCAGAAAACA AA 132

## (2) INFORMATION FOR SEQ ID NO: 2053:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 126  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02337

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2053:

GATCCATCCT TCCTGCCTCC AAGGAGGATA CACAGAGAAT GGCTTCCTGT TGTTTTGTTT 60  
 ATTTTCTTAA CGTGACAGA TGGAACTTC ATTTAAAAAT AAAAACAAAA CAACTCAAAA 120  
 AGGAAA 126

## (2) INFORMATION FOR SEQ ID NO: 2054:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 126
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02338

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2054:

GATCAAAAAA GCTCACGTCG TATTTCTTCT TTTCTTTCT CTTTCTAGA AATTGGGTGT 60  
 TTGTACCAGA ATGGAATTTT GCTTCTCGGT TATCCTGTGC TTCAGATGAT TATAATCTAA 120  
 CCCAAA 126

## (2) INFORMATION FOR SEQ ID NO: 2055:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 125
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02339

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2055:

GATCAAATCT TACAGTTCAT CACAGAATCC ATGTTGGTGA TAAATNCTAT AAAAGTAATA 60  
 GGGGTGGTAA GAACATCAGA GANTCCACAC AGGAAAAAAA ATCTATAAAA NGATTCTTTG 120  
 TGAAA 125

## (2) INFORMATION FOR SEQ ID NO: 2056:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 124
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02340

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2056:

GATCCACAG AAATGTTTTG GAGAGCGGGA GGTTCCCCC AATCTCCTCC AAGTTCTTCT 60  
 CCCTCCAACC AGAGTTGTGT CTAACCTTAG GCATCTTTTA ATAAATNTNA TTGCGACTCT 120  
 GAAA 124

## (2) INFORMATION FOR SEQ ID NO: 2057:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 207
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02341

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2057:

```
GATCACTTCT GAATAAGCAG TTTGCCTTTA TAAAACTTG CTGCCTGNCT AAAGATTAAC 60
AGGTTATAGT TTAAATNTGT AATTAATGCT ACCATCTTGC AATAAAGTGA CAATTGAATG 120
NAACAGGGTT TTTCAAGTTG TATAATTCTC TGAAATACTC AGCTTTTGTC ATATGGGTAA 180
AANTTAAAGA TGTCATTGGN CTACAAA 207
```

(2) INFORMATION FOR SEQ ID NO: 2058:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 120  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02342

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2058:

```
GATCTTTACT CTTGAGAAAT GAATAAGCTT TCTCTCAGAA ATGCTGTCCC TATACACTAG 60
ACAAAAGTGA GCCTGTATAA GGAATAAATG GGAGCGCCGA AAAGCTCCNT AAAAAGCAAA 120
```

(2) INFORMATION FOR SEQ ID NO: 2059:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 119  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02343

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2059:

```
GATCCAAGGT ATCCNTAACA NTGGAGCAGC CAAGTTTNTT TTCAGGCACA ATGACCCTGA 60
CCACCTAAAG AAAGTTNTAG AGAAGTNTAA CCCTAAGATA CCCAAAATTT TGGCCTTTN 119
```

(2) INFORMATION FOR SEQ ID NO: 2060:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 127  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02345

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2060:

```
GATCCCCTCT TCTCAGACAG CGCCAGGCCG GGGTGGGGCC GGGGTGGGG CCGAGCCCCA 60
CAGCTGCCCC CCTCCNTCC CTTTTGTAT AATTTAATAA AGAAATGGTC GCGCTTCTGT 120
TTTTAAA 127
```

(2) INFORMATION FOR SEQ ID NO: 2061:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 117  
 (B) TYPE: nucleic acid

(C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02346  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2061:  
 GATCGAGGTG GAGAAGATGC GCGGGCGGA GNCTTATNAC CGNNTAGAGA ACAGCCCACA 60  
 GNTGGATGGG AGCCCCCAG GGCTCGAGGG TCTGCTGGGG GGCATTGGGG AGAAAGN 117

(2) INFORMATION FOR SEQ ID NO: 2062:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 115  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02347  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2062:  
 GATCTGCTGA GGACACATGC GCTTTTGTAG AATTAAACAT CTGGTGT TTT TCTGAAAAA 60  
 TATATATACA TATATTGCTT TATTTGAAAC AAATNAAAAT ATGCTGCATT TGAAA 115

(2) INFORMATION FOR SEQ ID NO: 2063:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 114  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02348  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2063:  
 GATCTGGAGG AGGTGAAGGC CAAGGTGCTG CCCGCTGGGC CTCCCAACGG GCCCTCCTCC 60  
 CCTCCTTGCA CCGGCCCTTC CTGGTCTTTG AATAAAGTCT GAGTGGGCGG CAAA 114

(2) INFORMATION FOR SEQ ID NO: 2064:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 114  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02349  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2064:  
 GATCCAAAGT ATCAGGTCTG TTAGTGGCCA TCAGCACTTT AATATTGCCT CGAGGAGGAT 60  
 TTCTTGGNCN CNNNAAATAA GGTCATTAAG TCTTATGCCA AATTCAGTGC TCCN 114

(2) INFORMATION FOR SEQ ID NO: 2065:  
 (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 113  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02350

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2065:  
 GATCCTAGAT AAGCAGGTGA AATTTAGGCT TCAGAATATA TCCGAGAGGT GGGGAGGGTC 60  
 CCTTGAAGC TGGTGAAGTC CTGTTCTTAT TATGAATCCA TTCATTCAAG AAA 113

(2) INFORMATION FOR SEQ ID NO: 2066:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 109  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02351

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2066:  
 GATCTACGCT GTGCCTTGGC AGGGCACAAT GACCTTNTAG ANATCCACCT GTTAGAACGC 60  
 CTAGGGGTCT GAACCGGGCT GGNCTGANNC TATCACCTCT TATGCACAN 109

(2) INFORMATION FOR SEQ ID NO: 2067:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 108  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02352

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2067:  
 GATCCCAAGG CCTAGCCTGT GAAGGTCTCC TATCGGAAGA NTACCCCAT NNAATGGGAA 60  
 GTGGAATTCC TGGTCAANTT GGTCTTNATG CTCTGGAAGA CGTAAGAN 108

(2) INFORMATION FOR SEQ ID NO: 2068:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 108  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02353

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2068:  
 GATCTTAAGC AAAAATACTC ACTGAAATAG TATGTGGATG AATTCACCTA CTTACAATTT 60  
 TATGGTTTCT TTGTAAATAA TAAATGTGAA TCTCAATTCT GCTTTAAA 108

## (2) INFORMATION FOR SEQ ID NO: 2069:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 104
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02354

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2069:

GATCCTNGGC TCCACCTGGG TGGCCCTGAC CACGGGAGCC TTGGGCCTAG AGCTGCCCTT 60  
 GTCCTNCCAG GACCCCNCC TGGCCACTGC CCGCCTACTN NCTN 104

## (2) INFORMATION FOR SEQ ID NO: 2070:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 408
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02355

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2070:

GATCAGAGCT GCTGAGTTCA GGATGCCTGC GTGTGGTTTA GGTGTTAGCC TTCTTACATG 60  
 GATGTNAGGA GAGCTGCTGC CCTCTTGGCG TGAGTTGCGT ATTCAGGCTG CTTTGTCTGC 120  
 CTTTGGCCAG AGAGCTGGTT GAAGATGTTT GTAATCGTTT TCAGTCTCCT GCAGGTTTCT 180  
 GTGCCCCTGT GGTGGAAGAG GGCACGACAG TNCANGCGCA NGTTCCTGGG CTCCTCAGTC 240  
 GCAGGGGTGG GATGTGAGTC ATGCGGATTA TCCACTCGCC ACAGTTATCA GCTGCCATTG 300  
 CTCCCTGTCC TGTTTCCCA CTCTCTTATT TGTGCATTG GTTTGGTTTC CTGTAGTTT 360  
 AATTTTTTAA TAAAGTTGAN TAAAANTATA AAAANAAGAG NNGGCGNN 408

## (2) INFORMATION FOR SEQ ID NO: 2071:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 101
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02356

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2071:

GATCAAAAGC TTATTCATCT TTTTCTTTT TCCTTTGGTG TAAAGCCAAC ACCCTGTTTA 60  
 AAAANCATAA TTTCNTTAAN CNATTTTCCC TCTTCTCNT N 101

## (2) INFORMATION FOR SEQ ID NO: 2072:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 102
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02357  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2072:  
 GATCAAAAAA AGAGTTTGTAA GCTAATTTTG GCAAAATTCA GGCCAAAAAA GTAAGGCCAT 60  
 TATTTAACCC TGTGGCACCA TTAAATGTTG AAGAATGACA AA 102

(2) INFORMATION FOR SEQ ID NO: 2073:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 95  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02358  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2073:  
 GATCTTTTTT GTCAGTTTGT TTGTATGAAA CTAAAGCCNT TATTTGTAA TAGTTCCTGC 60  
 TAAAACAATG AATAAAACT CAAGGAGCAA CTAAA 95

(2) INFORMATION FOR SEQ ID NO: 2074:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 92  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02359  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2074:  
 GATCGTCTCT AGGATGATAT GCATGTTTCA AGTGGTATTG AAAGCCGCAC TGATGGATAT 60  
 GTAATAATAA ACATATCTGT TATTAATATA AA 92

(2) INFORMATION FOR SEQ ID NO: 2075:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 101  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02360  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2075:  
 GATCTAAGTT AGGAAAGACG ATGGAGGTGG AATCCTTTAA GATTATNTCC AGTTATTTGC 60  
 TTTAATAAAG AAGAAGTTAC CCTTGTCAAA ATCAGAACAA A 101

(2) INFORMATION FOR SEQ ID NO: 2076:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 87  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single

(D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02361  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2076:  
 GATCTTCATT TATTTTAATG GTAATGGTTT TAAAATATGT TCCTGATTGT ACATATTNTA 60  
 AAATAAACAT GTTTTTTAAC ATGCAAA 87

(2) INFORMATION FOR SEQ ID NO: 2077:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 88  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02362  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2077:  
 GATCACAAAC ATTCAACAAA AAAGTTAACT TATGTGACTT GGCAGTTATT CTATACCATT 60  
 TCCTGTCCAT TAAATTTTTT AAAGGAAA 88

(2) INFORMATION FOR SEQ ID NO: 2078:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 85  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02363  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2078:  
 GATCCCATTT AATATTTAAA AAAATCAGTA GCACAAATAT ATNTNAATTG TCAACTTACA 60  
 AAATAAAATA CATTTACAGT CTAAG 85

(2) INFORMATION FOR SEQ ID NO: 2079:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 82  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02364  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2079:  
 GATCATCAAA AAAGAGGTAA TCTACGTTAT TTCCTATTCT AATGTCTTTT CCTAATAAAA 60  
 AACTTCAACT TTCTAAGTTA AA 82

(2) INFORMATION FOR SEQ ID NO: 2080:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 80



(B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02365  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2080:  
 GATCCTTTTCG GAATTGCACT TTTACATGTT GGGCGAATTT GTGTCCGTGC TGAAGTTTAT 60  
 TAAAGGAAAA TAGATGGAAA 80

(2) INFORMATION FOR SEQ ID NO: 2081:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 80  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02366  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2081:  
 GATCAAGCCT TGCTTGAGAT TGGCCTTACC TCTGGNCNTT TTTTGTTATA TGAGCTAATA 60  
 AATNCTGTTT ATTGTTTAAA 80

(2) INFORMATION FOR SEQ ID NO: 2082:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 80  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02367  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2082:  
 GATCCATGAA GTNATTCAGT GGAAANATGC ACGTTNATAC TATTTNAGAG CACAAATAAA 60  
 CTCCTATAC AATGGTCAAA 80

(2) INFORMATION FOR SEQ ID NO: 2083:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 76  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02368  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2083:  
 GATCAAACCT CAAAGCAGCT TTNACTTGGA ATTTAAAAAT AAACAGTTCA AAGATACTCT 60  
 ACATTATCAC CNTAAA 76

(2) INFORMATION FOR SEQ ID NO: 2084:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 70  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02369

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2084:  
 GATCCATTTTC ATGCAGGATT GTGTTGTTTT AACTGTTGTT GAGGAAACTA ATAAATAATT 60  
 AAATTGTAAA 70

(2) INFORMATION FOR SEQ ID NO: 2085:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 64  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02370

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2085:  
 GATCTAAGAT GTCCAGGTC CTGGGAAGTT TACTCAATAA AGCTGGCTTT CCCCTGCCCT 60  
 CAAA 64

(2) INFORMATION FOR SEQ ID NO: 2086:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 64  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02371

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2086:  
 GATCCGTTGT AATGATGTGA ACATTTTATG AGTTTAAATA AAGTCATCTT ATGGTGT CAT 60  
 TAAA 64

(2) INFORMATION FOR SEQ ID NO: 2087:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 61  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02372

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2087:  
 GATCTTAAAA TCAGTGATTA TCTTTTCTA AATAAAATAT CACCAGAATT CATCAGTTAA 60  
 A 61

## (2) INFORMATION FOR SEQ ID NO: 2088:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 60
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02373

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2088:

GATCTAAGAT GTCCAGGTC CAGGAAGTTT ACTCAATAAA GTGGCTTTCC CTGCCANAAA 60

## (2) INFORMATION FOR SEQ ID NO: 2089:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 66
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02374

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2089:

GATCTCCGGG CAGCCACCAC CTCCTCGGTC TGCCCCCTCA TTAAAATTCA CGTCCCCACC 60  
CTGAAA 66

## (2) INFORMATION FOR SEQ ID NO: 2090:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 59
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02375

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2090:

GATCATGCAA AGAAAACCTC CAAAAGATT TATTAACCTA AACCAGCCTC TNTNGCAA 59

## (2) INFORMATION FOR SEQ ID NO: 2091:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 74
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02376

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2091:

GATCTCAAAT TGCCTCTGAA CCTTTTATAA GACAGTTTAT CTTCAAATAA ATTTATTTTG 60  
CAATACCAG CAAA 74

## (2) INFORMATION FOR SEQ ID NO: 2092:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 56
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02377

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2092:

GATCAAAGTC TATTTTGCAT AAAATGTCCA ATAATTAAAT ATTGTTATAA AATAAA

56

## (2) INFORMATION FOR SEQ ID NO: 2093:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 55
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02378

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2093:

GATCGGCAGT TGGGAGGGGC GCTCTGAGAT TAAAGAGTTT TACCTCTGAG ATAAA

55

## (2) INFORMATION FOR SEQ ID NO: 2094:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 54
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02379

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2094:

GATCCANTCT TTGACAAACT GAAAAGAACT GAAAATAAAC ATTGCTCTTT CAAA

54

## (2) INFORMATION FOR SEQ ID NO: 2095:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 52
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02380

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2095:

GATCCCTGCC CCTCCCCACT GGGACGGAAT AAATGCTCTG CAGACCTGGA AA

52

## (2) INFORMATION FOR SEQ ID NO: 2096:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 266  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02382

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2096:

```
GATCTGCTTA TAGAGCAGGA AGAATAAAGC CACCAACTTT TACCTAGCCC GGCTAATCAT 60
GGAAGTGTGN CCAGGCTTCA AGTAACTTGA GTTTTAATTT TTTT TTTTC TTGGNAGAGT 120
AATGTAAAT TTAATGGGG AAAGATATTT AANATTAAAT ACTAAGCTTT AAAAAGAAAC 180
CTGCTATCAT TGCTATGTAT CTTGATGCAA AGACTATGAT GTTAATAAAA GAAAGTACAG 240
ANGACACTTG GCATTCAAAG NTTAAA 266
```

(2) INFORMATION FOR SEQ ID NO: 2097:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 451  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02399

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2097:

```
GATCTAGAGA GTGCTCAGAA TTAGGGCCTG GCATTTGGAA TCACAGGANA TATCATCACA 60
GAAACAACTG TTTTAAGATT AGTTCCATCA CTCTCATCCT GTATTTTNAT AAGAAACACA 120
AGAGTGCATA CCAGAATTGA ATATACCATA TGGGATTGGN GAAAGACAAA TGTGGAAGAA 180
ATCANNGNGC TGGAGACTAC TTTTGTGCTT TACAAAACCTG TGAAGGATTG TGGTCACCTG 240
GAACAGTCTC CAATCTATGT TAGCACTATG TGGCTCAGCC TCTGTTACCC CTTGGNTTAT 300
ATATCAACCT GTAAACATGT GCCTGTAAC TACTTCCAAA ATCAAANTCA TACTTATTNG 360
AGGAANATTC TGATTTTNTA GANAAAANNT NGAGCNAGGN GATTATANCN TGTTTGCAAG 420
TCATGTGGTT TCTTTCTCAA TNGGGGGNNA N 451
```

(2) INFORMATION FOR SEQ ID NO: 2098:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 441  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02400

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2098:

```
GATCCCAAAC TGTTCCCTTT TTCATTTCTT GAAATGTTAC CACTACAGAC ATTTTTTNAA 60
GGTGAATAAA CAGTTGTNAT GTGCTGTACC TAAAATCATG TTTAATCGTA TAAGGAAACA 120
TTTCAATACA CTTATACAGG AAGAAAAC TAAGATGAAGT ACATGTGTGT GATTCAGTCT 180
GATTCACAGA ATTCTGAGAG TAATATGGAA TAAAACAACT CCACTTAGAT GATAACTGAA 240
GCATTTCCCTG CCTTGTGAAA ATTTGGNTTT TAAATTGCTG TTAGAATGGG NAATTTGGAC 300
ACTTTATATC ATTGTATANT TNCAGACTTT AGNTTCTGTA TCTNTTGGGA ACCATGGTTA 360
TAGCAAAACC NTTGGNAATA ATCCTGTTTC CNANACCNC CTNNATGTAA ACCTGGTATG 420
```

CTTGGCTGGT AACNCCTAAG N

441

## (2) INFORMATION FOR SEQ ID NO: 2099:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 440
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02401

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2099:

```
GATCTATGTC TNCTGCCTGG CTCCTAGATG GCTCTCCGGG CAGGTNCTGG CCAAGGACAT 60
CATCTAGGCA GGGGGAGAGC CTGGNCTGAA CAGCTGTNAC CAAAACCTCC TTCTNCCCCA 120
CCCTGCCCCC TCCACTTCCT GCCCTCTGTT CCATCTTCCC CCTTCCCAA GGCCACAGCC 180
TTTATTCCAG GCCCAGGGAT GTAGGAGGGG GAAGGAGGAA ACAGGAAGCC CAGAGAGGGC 240
AAAGGGCCTA CCTCGGGGCG CGAACCATGC CCCANACTAT TATCTCAGGG CTTTCTGGGC 300
ACTNGCACTT CAGCGTGGCC CACCTGCCCA TGCCCTGAGG CCAGTTNGCG AGGGGTGGCT 360
CCTGAGGGTT TTTATAACCT TTGTTTGNTA ATGTTTAATT TTTGCATCAT AATTTCTACA 420
TTGTCCTGG AGTGTAAGAN 440
```

## (2) INFORMATION FOR SEQ ID NO: 2100:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 411
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02402

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2100:

```
GATCAAAAGG CTGAAAGGTT TGCTACCCA GCACGGCATC CCCTACACGA GGCCACAGA 60
AACTTCCAAC TTGGAGCACT TGGGCCACGA GACGCCAGA GCCAAGTCTC CAGAGCAGCT 120
GCGGGGTGAC CCAGGACTGC GTGGGAGTTT GTGACCTTGT GGTGGGAGAG CAGAGGTGGA 180
CGNGGCCGAG AGCCCTACAG AGAAGCTGGC TGGTAGGACC CGCAGGACCA GCTGACCAGG 240
CTTGTGCTCA GAGAAGCAGA CAAAACAAAG ATTCAAGGTT TTAATTAATT CCCATACTGA 300
TAAAAATAAC TCCATGAATT CTGTAAACCA TTGCATAAAT GCTATAGTGT AAANAAATTT 360
AACCAAGTGT TACTTTAAAC AGTTCGTACA AGTAATGNNT ATAATTCTAA A 411
```

## (2) INFORMATION FOR SEQ ID NO: 2101:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 408
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02403

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2101:

```
GATCTGGAAG GCTTGAGCCT CCTTGGGTTT GTCTACAAAT TGGAAGGAAA TATGAATGAA 60
GCCCTGGAGT ACTATGAGCG GGCCCTGAGA CTGGCTGCTG ACTTTGAGAA CTCTGTGAGA 120
```

CAAGGTCCTT AGGCACCCAG ATATCAGCCA CTTTCACATT TCATTTTCATT TTATGCTAAC 180  
 ATTTACTAAT CATCTTTTCT GCTTACTGTT TTCAGAAACA TTATAATTCA CTGTAATGAT 240  
 GTAATTCTTG AATAATAAAT CTGACAAAAT ATTAGTTGTG TTCAACAATT AGTGAAACAG 300  
 AATGTGTGTA TGCATGTAAG AANGAGAAAT CATTTGTATG AGTGCTATGT AGTAGAGAAA 360  
 AAATGTTAGT TAACTTTGTA GGAAATAAAA CATTGGACTT AACTATAA 408

(2) INFORMATION FOR SEQ ID NO: 2102:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 397
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02404

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2102:

GATCCGAGAG GTGGCCAACA AAGTCAAGGT CCCCCTGCTG GATTTAGGCA GCCCCCAACT 60  
 GGCCATGCAC TCTATCCGGN AGATGGCCTG CACCACAGGA GTCCTCCANA CCCTNACCCT 120  
 CTTCAAGGGC TTCTTTAAGC TGTTCCCTTC TCTAAGCCAT AATCTCTNAG TGGATTGAGC 180  
 CCTCTTGGA AGACTTCTCT GCCATCCCTT TGCACCTGAN AGGGGAAGTT CTCAGCTGAG 240  
 CTGAAGCTGG ATTATTAAAG TGGATTGTAA CTCAGACTCT CCGTGCTACG CTTATTGGA 300  
 GACTAGAGGA GTGGGAGTTG AGCCTGGCTT GAACCTTTGG AACCAGAAAA GTTGGGGAGC 360  
 AGGTGGAGGA GGCCACACTC CTGGGAGCTT GATGGTN 397

(2) INFORMATION FOR SEQ ID NO: 2103:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 219
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02406

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2103:

GATCAGCCCT TTTTCCCATC CTGCCCTATG GTTCTCTAGC CACCTGTGCA TGCATGTGTA 60  
 TTTCTGCCTN GTTCTATGGT GTGTGGATGT GTGTGCATGA ATCTGTCATA TAGAGGGGGT 120  
 CCGAGCTGGA ATCTAGAGC ATTGCTGCC TGGGGCCTGA TGTTCTTGCC TTCCTCAGAG 180  
 CATGTAACAG GAAATTAAAT GGGATGAGTG TTTGGTAAA 219

(2) INFORMATION FOR SEQ ID NO: 2104:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 380
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02408

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2104:

GATCCTACCT CCAACTCCTG ACTCTATAGG TCTACTCTT TTTTATTGT CCTANNNTA 60  
 CATAACATAA AATTTATAAA TTTAATATTC TAGGGTATAG TTCAGTGGTA TTAAGTACAT 120

```

TCACACTGAT GTGCAACCAT CATTATCATC CATTCCCAAA ACTTTTCATC ACCGCAAATA 180
GAAAAGCTGT ACCCATGAAA CAATAACTTC CATTGCCTCC CCCTCAGCCT TTGGTAACCT 240
CTATTCTACT TTCTGTTTCT ATGAATTTGA CTGTTCTAGG TACCTCATAT AAGTGGAATC 300
ACACAAATATT TGTCCCTTTG TGTCTAACTT ATTTCACTTA GCATGTTTTT AAGATTTATC 360
TGTACTGTAC CATGTATCAN 380

```

## (2) INFORMATION FOR SEQ ID NO: 2105:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 378
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02409

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2105:

```

GATCTGTGCT CTCCTAGCCC AAGAGACCCC TGGAGGGGCT GGAGTTTTAT CCAGCGNCTC 60
GTCGTATGTT TGGCTGAGCA CCTGTGGCCT GGGTGCAGGT TAACTTCTTG TTATCAGGAG 120
CCCACTATGC AGAGGCCAAA GGTCGGCAGC CAGCGAGGCT ATGAATTGGA CCTTTTGGT 180
ATCTGTGTNA CTGNTCTGTG NCCATNCTTA GNCAACTTGC TGGCGTGACA AGTGCCACACA 240
AGTAACACAC CAGGTACCCA GAGNAGGGTG GACAGGAGAG ACCTGAATNA CAGCAGTANG 300
GAATTCCTCA ANGNTGTGNC CTCGCCCATG AANTTGTTC AANTTGAAGG TNANNAGGGN 360
CACCAATCAG GGTGAGN 378

```

## (2) INFORMATION FOR SEQ ID NO: 2106:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 374
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02411

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2106:

```

GATCCAGAAG TACAAGGTGG TCCTGGCCCC GGAGACGGNG GAGTTGAAGA GTGTGGCCCCG 60
CATTGTCTCG GTTCCCAATA AGAAAGTGGG CCTGCAGTTC CTGCAGAGAC AGTGCTGAGC 120
TGAGTCTCCG CCTTGCTGGG GCTTGTCTTA GAGGCTCCAG CTCTGGCACA GTGGTTCCTG 180
GCTGCTGCCA TGTCTCANAT GAGGAGGGAG AGAAGGAGGC CGCCAGACTC GAGAGGTGGG 240
AGGAACTCCT TGCACACACC CTGAGCTTTT GCCACTTCTA TCATTTTGA GAACTCCCTC 300
TCAGCTAAAA GGCCACCCTT TTATCGAATG CTGTCCTTGG GAAGATATAA AATAAAGGGC 360
TNTTATTTCT TAAA 374

```

## (2) INFORMATION FOR SEQ ID NO: 2107:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 369
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02412

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base



## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2107:

```

GATCCAGCCC GACCTGCGAG ANTGATGGAG ACCATGCACC GCATGAGCCA CCTCCCACCC 60
GACTTTGAGG GCCGCCAGAC GGTCAGCCAG TGGCTGCAGA CCCTGAGCGG ATGTGGGCGT 120
CAGATGAGCT GGACGACTCA CAGGTGCGTC AGATGCTGTT CGCCTGGAGT CAGCCTACAN 180
CGCCTTCANC CGCTTCCTNA TGCCTGAGCC CGGGGANTAG CTTGNACAG CCGGGAGAGT 240
CTGAGGCNTG GTCCTGGTCC CTGTCCGCAN AGAGGCCGTG NNATCACANA GCTANTGTCT 300
GAGTGGCTGT CTGGNTCTGC TTTGGGTAAG ACTTTGGGGC CGGCCTCCCA NAATAAGGTG 360
TCTCGGAAA 369

```

## (2) INFORMATION FOR SEQ ID NO: 2108:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 368  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02413

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2108:

```

GATCAGAGCC AAGAAGCGTC TGCGGCAGAG TGGGGAAGAG TTGCCGCCAA CCTCCTAGGC 60
GCCCCGCCCA GCTCCCTTTG ACCCTGGGG CAGGGCAGGG GGCAGGGAGA GACAAGGCTG 120
CTGCTATTAG AGCCCATCCT GGAGCCCCAC CTCTGAACCA CCTCCTACCA GCTGTCCCTC 180
AGGCTGGGGG AAAACAGGTG TTTNATTTGT NACCGTTGGA GCTTGGATAT GTNCGTGGCA 240
TGTGTGTGTN TGTGTNANAG TGTGAATGCA CAGGTGGGTA TTTAATCTGT ATTATTCCCC 300
GTTNTTGGAA TTGNNTTCCC CNATGGGNCT GGGGTACTTT ACATTCAATA AATACTGTTT 360
AACCCTAAA 368

```

## (2) INFORMATION FOR SEQ ID NO: 2109:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 368  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02414

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2109:

```

GATCACAGGA AGTGGAGGAG CCAGAGGTGC CTTTGTGGAG GACAGCAGTG GCTGCTGGGA 60
GAGGGCTGTG GAGGAAGGAG CTTCTCGGAG CCCCCTCTCA GGCTTACCTG GGCCCCCTCCT 120
CTAGAGAAGA GCTCAACTCT CTCCCAACCT CACCATGGAA AGAAAATAAT TATGAATGCC 180
ACTGAGGCAC TNAGGCCCTA CCTCATGCCA AACAAAGGGT TCAAGGCTGG GTCTAGCGAG 240
GATGCTTGAA GGAAGGGAGG TATGAGACCG TAGGNANAAN GGCACCATCC TCGTACTGTT 300
GTCACTATGA GCTTAAGAAA TTTGATACCA TAAAATGGTA AAGACTTGAA AAAAGTANAA 360
NATGTTTN 368

```

## (2) INFORMATION FOR SEQ ID NO: 2110:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 368  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02415

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2110:

```
GATCTTGGTT TTGATGTGGA CATAGGCCCT CTTTCCAGA CTCCTCGTGA AGTGGCCCAG 60
CAGGCTGTGG ATGCGGATGT GCATGCTGTG GGCCTAANAC CCTCGCTGCT GGTCATAAAA 120
CCCTAGTTCC TGAATCATC AAAGAACTTA ACTCCCTTGG ACGGCCAGAT ATTCTTGTC 180
TGTGTGGAGG GGTGATACCA CCNTCAGGAT TATNAATTTT TGTGTTGAAGT TGGTGTTC 240
AATGTATTTG GTCCTGGGAC TCGAATTCCA AAGGCTGCCG TTCAGGTGCT TNATGATATT 300
GAGAAGTGTT TNGAAAAGAA GCAGCAATCT GTATAAAATA AAAATATCAC AAGAGAACAC 360
CTGTACTN 368
```

(2) INFORMATION FOR SEQ ID NO: 2111:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 365  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02416

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2111:

```
GATCGAAAGA AATCTAAGTG ATACGGCCCA ATGAAGCTAA AATATAGCCT TCTGTAAAGC 60
AAATAGTATT TCCTTTCCCC AAGTAGTTCA TTTTCTAGAT GCTTGTCAAA TGAATTAATG 120
TCCTCTGATG AAGAGTGTCC TTCCGTTTCT AAGGTCTTCT CAATCTCAGC AATAGAGCTT 180
CCCAGCAGCG TTCAAGACAC ATCATTTATA CACAGGCACA GGGGCCTTCC TGAATGGGT 240
GCATTTTAC CACTACAAT CATGTAATTT TTTTGGAAAT TTTTAAAT TTTGNTNCT 300
TTACATTACA ATTGGGTGAA ACACATTTTA CAGCTCTCAA TAAATGTTTG CTGGTCGCTC 360
TGAAA 365
```

(2) INFORMATION FOR SEQ ID NO: 2112:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 363  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02417

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2112:

```
GATCAACGAT TACGTGGAGA AGGGTACTCA AGGGAATTT GTGGATTTGG TCAAGGAGCT 60
TGACAGAGAC ACAGTTTTTN CTCTGGTGAA TTACATCTNC TTTAAAGGCA AATGGGAGAG 120
ACCTTTTGAA GTCAAGGACA CCGAGGAAGA GGAATTCAC GTGGACCAGG TGACCACCGT 180
GAAGGTGCCT ATNATGAAGC GTTTAGGCAT GTTTAACATC CAGCACTGTA AGANGCTGTC 240
CAGCTGGGTG CTGCTGATGA AATACCTGGG CAATGCCACC GCCATCTTCT TCCTGCCTGA 300
TGAGGGGAAA CTACAGCACC TGGAAATGA TTGACCAAAA TACCAAGTCT CCCCTTCTTC 360
ATN 363
```

(2) INFORMATION FOR SEQ ID NO: 2113:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 362  
 (B) TYPE: nucleic acid

(C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02418  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2113:

```

GATCCCAGTC GCATACCAGG TGTCCTCCTC CAGGTCGTGA ACGGCAAAGG CACTGCCCCG 60
ATCGCCATAG CAGGTGTCTT CTTGGTACTT AGACATGCCA GCACAGAAGG TGTGTTTCATT 120
CAGTATGGGC TGCACCCCTA CAGGGCTCTT CGGTGTCTTC CATCCAGGAC TGGGTTCAGA 180
AGACCATAGC TGAGAACTAA TGCAAGGCTG GCCGGAAGCC CTTGCCTGAA AGCAAGATTT 240
CAGCCTGGAA GAGGGCAAAG TGGACGGGAG TGGACAGGAG TNGATGCGAT AAGATGTGGT 300
TTGAAGCTTG ATGGGTGCCA GCCTGCATTG CTGAGTCAAT CAATAAAGAG CTTTCTTTT 360
GN

```

(2) INFORMATION FOR SEQ ID NO: 2114:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 362  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02419  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2114:

```

GATCNGACAG GCACCAGCAA TGACACAGCA TAACTGTTG GGCACAGGAA AGAGGCTTGA 60
CACCACCAGC CCACCAGGAA ATGCAGTTCA GCCACCACGA GGACACGAGG AACCTGCACC 120
ACAGCCGCAG TCAAGAGAAT GCTGGTGGTG CCAAGNTGCA GGGTGTGGCC TGCTGGAATG 180
GAAGCGCATG GTGGTNNCTA TAAAGTCAAT GNCACAGCAC ATGCCAGCA ATCCACTGTG 240
GGATTNGNGA TGANACTANG CNCATAAAAC TGTNCGAATT TTNCTGTGCT TTTTCATATCN 300
TCAATNTGAA TCAANTGCTT CATTGGGTAC TGTAAGTGTG GNTACTTNAG TGAATCTCTN 360
TN

```

(2) INFORMATION FOR SEQ ID NO: 2115:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 355  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02420  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2115:

```

GATCATATAG TAGGTTTAGG TTAACTTTT TAAGAAATTG CCAAGCTTTT CCAAAGTGGC 60
TGTCCCTCTT TACATTTCCA CCAGCAATGT ATAATGAATG GTTCAGGTTC CTCCACATTC 120
TTGTCGGCAC TTGGACTTTT CTGTTTTGTT GTAGCCATTC TAGTGGATGC AAAGTGGCAT 180
CTCATTATGG TTCATTTGCA TTTCTCTGAC AACTAATGAT TTTGAGCATC TTCATGCGAT 240
TGTTAACCAT TTGTATATCT TTAGTGAAAT ATCTATTCAA TTATTGCCA TTTTAAATT 300
GGNTCACATG GCTNATTAAT GNATTGTAAG AAAGGTTTAC ATATTCCTGG ATACN 355

```

(2) INFORMATION FOR SEQ ID NO: 2116:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 350  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02421  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2116:

```

GATCATGATT TTGTAGTACA GGAAGACTTC ATGAAAGCAG TCAGAAAAGT GGCTGATTCT 60
AAGAAGCTGG AGTCTAAATT GGACTACAAA CCTGTGTAAT TTAGTGTAAG ATTTTGTGATG 120
GCTGCATGAC AGANGTTGGC TTATTGTAAA AATAAAGTTA AAGAAAATAA TGTATGTATT 180
GGTAATGATG TCATTAAAAG TATATGANTA AAAATATGAG TAACATCATA AAAATTAGTA 240
ATTCAACTTT TAAGATACAG AAGAAATTTG TATGTTTGT AAAGTNGCAT TTATTGCAGC 300
ANGTTACAAA GGGGAAGTGT TGAAGCTTTT CATATTTGCT GCGTGACATN 350

```

(2) INFORMATION FOR SEQ ID NO: 2117:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 375  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02422  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2117:

```

GATCCGCAGN CAGAAGCTCT GCCCTTCTGT ATCCTATGTA TGCAGTGTNN TTTNCTTGC 60
CAGCTTGGGC CATTCTTGCT TAGACAGTCA GCATTGTNT CCTCCTTAA CTGAGTCATC 120
ATCTTAGTCC AACTAATGCA GTCGATACAA TCGTAGATA GAAGAAGCCC CACGGGAGCC 180
AGGATGGGAC TGGTCGTGTT TGTNCTTTTN TCCAAGTCAG CACCCAAAGG TCAATGCACA 240
GAGACCCCGG GTGGGTGAGC GCTGGCTTCT CAAACGGCCG AAGTTGCCTC TTTTAGGAAT 300
CTCTTTGGAA TTGGGAGCAC GNTGNCTCT TGAGTTTGA GCTTTTAAAA GTACTTTNTT 360
TACCACATTT GGAAA 375

```

(2) INFORMATION FOR SEQ ID NO: 2118:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 339  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02423  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2118:

```

GATCTCTAAC CAGAAATAAA CAGGAAGACT CAGTNGTTTA CAAAAGACAT TTTAGTTTTA 60
CACGTACAGA AAATTCTACC CNGGCATTAC AGAATTCTTA GACTTCTTAA ATTCCTGATT 120
TTCCTTGGTA TTTACATTTT GATAAGGGAG CCAATGGTTC TTCAAACATT TGAAAAGAAC 180
ACATACACAC TGGACAATTT CAAACGNTAC AAACAAACGC AACTGTCCTT CTTTCTCATT 240
CCTGTCCTTC AGCCACCCAG TTTCTTCTCC CCTGAGGGAA TCAGTTATCA TTNGCTGGGT 300
CATACTTCCA GATTATCCTG TGCCTATGTA AGTGTGTGN 339

```

(2) INFORMATION FOR SEQ ID NO: 2119:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 334  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02424  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2119:

```
GATCTGGGAC GTNCACGAGT NAGGGGCTGG CCACCCAGCC CACAGCCTTG CCTGACCACC 60
CTCCAGCAGA TAGACGCCGG CACCCCTTCC TCTTCCTAGG GTGGAAGGGG CCCTGGTNCN 120
NGCCTGTAGA CCTATCGGNT CTCATCCCTT GGGATAAGCC CCAGTCCAGG TCCAGGAGGC 180
TCCNTCCCTG CCCAGCGAGT CTTCCAGAAG GGGTGAAAGG GTTNCAGGTC CCGACCACTG 240
ACCNTTCCCG GGTGNCCTCC CTCCCCANCT TACACCTNAA GCCCAGCACG NAGTAGNCTT 300
TGAACAGAGG GAGGGAAGGA CCCATGGGTC TCCN 334
```

(2) INFORMATION FOR SEQ ID NO: 2120:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 330  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02425  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2120:

```
GATCAAAGAG AAAATAAAAA ATCGCTACTT CCCTGCCTTT GAAAAAGTCT TAAAGAGCCA 60
TGGACAAGAC TACCTTGTG GCAACAAGCT GAGCCGGGCT GACATTCATC TGGTGGAACT 120
NCTCTACTAC GTCGAGGAGC TTGACTCCAG TCTTATCTCC AGCTTCCCTC TGCTGAAGCT 180
CTCCAGGACA CTGGCCCCC ACACTGTATC TCTCACTGAG AAAAGGTGGT CCCATGGCCC 240
TGAAAACAG AATNAGCAAC CTGNCCCACA GTGAAGAAGT TTCTACAGCC TNGGCAGCCC 300
AAGGAAAGCC TCCCATTTGA TGAGAAATCN 330
```

(2) INFORMATION FOR SEQ ID NO: 2121:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 327  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02426  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2121:

```
GATCGAAGTA AAATAGAAAT GGGACTNGCT TTCCACAGGA AGTAAACTGC TTCAGAGCCC 60
ACAGTCCCCT GCTCAGTGTC CGGAAAGAAG TCAGTCATCC CTGTTGGCAG TAAATCTTCC 120
CACAGGCCGT CCATTAGAGA TTAACTAGA TATGTTCAAT AGAAAGAGTC TGAGGCAAGT 180
GGAAATGAGG NNCGGAAACT TAGGTTGGGA GAATATTTTT NTTNTATTCA TTCTGTTTGC 240
TTAATTCAGA GTACAGTTTG TGCTATTTCA TATCTGTACT CCAGGCAGAA ATATAACTTG 300
AAAATACTGT GTCTAAAGAA ATTTCAN 327
```

(2) INFORMATION FOR SEQ ID NO: 2122:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 324  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02427

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2122:

```
GATCCTCGTC ATCAAGGATG GCTGCATCGT GGAGAGGGGA CGACACGAGG CTCTGTTGTC 60
CCGAGGTGGG GTGTATGCTG ACATGTGGCA GCTGCAGCAG GGACAGGAAG AAACCTCTGA 120
AGACACTAAG CCTCAGACCA TGAACGGTG ACAAAGTTT GGCCACTTCC CTCTCAAAGA 180
CTAACCAGA AGGGAATAAG ATGTGTCTCC TTTCCCTGGC TTATTTTCATC CTGGTCTTGG 240
GGTATGGTGC TAGCTATGGT AAGGGAAAGG GACCTTTCCG AAAAACATCT TTTNGGGGAA 300
ATAAAAATGT GGAAGTGGTGC GAGN 324
```

## (2) INFORMATION FOR SEQ ID NO: 2123:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 355  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02428

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2123:

```
GATCTGAACA TTCAAAGAA AGCTTTGGAA AAAAAGAGCT GGCTGGCCTA AAAACCTAAA 60
TATATGATGA AGATTGTAGG ACTGTCTTCC CAAGCCCCAT GTTCATGGTG GNCCNNTGGT 120
TATTTGGTTA TTTTACTCAA TTGGTTACTC TCATTTGAAA TGAGGGAGGG ACATACAGAA 180
TAGGAACAGG TGTTTGCTCT CCTAAGAGCC TTCATGCACA CCCCTGAACC ACGAGGAAAC 240
AGTACAGTCG CTAGTCAAGT GGTTTTTAAA GTAAAGTATA TTCATAAGGT AACAGTTATT 300
CTGTTGTTAT AAAACTATAC CCACTGCAAA AGTAGTAGTC AAGTGTCTAG GTCTN 355
```

## (2) INFORMATION FOR SEQ ID NO: 2124:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 324  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02429

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2124:

```
GATCTCAGAA CTGAAGCCG CCCTGACATG AAGACTGAGC TCTTTTCCAG CTCATGCCCA 60
GGTGGAATCA TGCTGAATGA GACAGGCCAG GGTACCAGC GCTTTCTCCT CTACAATCGC 120
TCACCACATC CTCCGAAAA GTGTGTGGAG GAATTCAAGT CCCTGACTTC CTGCCTGGAC 180
TCCAAAGCCT NCTTATTGAC TCCTAGGGAA TCAAGAGGCC TGTGAGCTGT CCAATAACTG 240
ACCTGTAAGT TCATCTAAGT CCCAGATGG GGNACANTGG GGAGNTNGAG TTGTTGGAGG 300
GAGGAAGCTT GGAGACTTCC CAGN 324
```

## (2) INFORMATION FOR SEQ ID NO: 2125:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 324  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02430

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2125:

```
GATCCATCTT CATCCATTGC ATTGGAACT NCTTTATGCT GCTGCAGTCT GCAAAGTCTA 60
GAGCTTTTAT CAGGCCATGT CATACCCAAG AAAGCACCTA TTAAAGAAA AAACAATTCC 120
CTGAGCTCTC AACTCCAAGT TGTAATTTG GTGTCTTCCT TGTCCTTACT TTAAAAAGTC 180
ATGTGTTAAT TTTNNTCTG CCTGTATTTG TATGCAAAT GTCCTCTATC TGCTATNAAA 240
GAAAAGCTAC GTAAACCACT ACATTGTANC CTTCTAAGTN ATTNTTAATT AGNAGGGNAT 300
TATNTTGCAG TACCANTTGG GAAA 324
```

(2) INFORMATION FOR SEQ ID NO: 2126:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 321  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02431

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2126:

```
GATCGTGAAG ACCTGCTGAG CCAGCCTGTT CTCCGGGCT GAATGTCTGG GGTGCTTGTG 60
CCTTTTCTGA GAAGCGTTGT GACTGCTCAA CATCCCCATC AAGGTTTGAG TCCACAAAAG 120
TGGACCTCCC TATCATGCTT CCCCTTCCCT CTAGCATGTG GGAAGGGACT GCTGTGAAGA 180
ATGNCAGATG TGGGGCCTCT GCCAAGTTCT TGCATTGCTA AATAAGGGCT TCCTCTGCCT 240
TCTACCTACA GTGCATTTGA ACTGCCTTCT GAAAGAGGTC CAGGGAGGGA TTTAGGAAAT 300
AAAGNTTCTA CCTATTGAA A 321
```

(2) INFORMATION FOR SEQ ID NO: 2127:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 319  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02432

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2127:

```
GATCCTAAGC GAAGATGGAT TTCAGTTCAT CAAATCATCA TTAATGACTT TATGTATTAT 60
TTGCACAGGG AGAATTGAAA CTGAGTATAA TCAATAAGCT AGATACGAAA TCAGTTTCTC 120
AAACTGAGCT TCAGAAAGGG GCATTTTGTA CTCTTGTTTT TGCATAACTG GTTTTGTTTT 180
TTTGCAGAA TAACTATAAC ANTCACTGGC TACCGAAGTA AACTGATGTA CTGAATTCCA 240
TAATACATAA CATTCAATTT TTACCACTNC TGTTTAGCGA ACTTGATATC TTATTTCTCTG 300
TTCAGNTTAA AAAAAGAAA 319
```

(2) INFORMATION FOR SEQ ID NO: 2128:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 315  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02433  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2128:

```

GATCACACCT GAAAGCAGTG GTCCCAGCTC TGTGCTGTGG GACATCACAG GTCCTAAACA 60
GTGATAGAGA AAGGGCTGGG GAGTGGCAGC TGGGAATCTCT GCTTCCGTCT GAACATCTGG 120
ACACACATGT CAGAGAATCT TTGCATTAAA TGGACTGCCC AATCTATTTG GTGATTAAAT 180
GGCTGTGCGG TGAGGGGAGA ACCCTGGGCA GTCTGGAGAC TGAGGTGCCA TTCTCGGCTA 240
GAGACACCAC CCAAAGAAGA GATGGGCTGG CTACTAAAGA CAAGTNTCAG TTGAATAAAT 300
GTCTTTAAAC CTAAA 315

```

(2) INFORMATION FOR SEQ ID NO: 2129:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 311  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02434  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2129:

```

GATCATTGTC CCTACAGACA CCCAGAACAT CTTCTTCATG AGCAAAGTCA CCAATCCCAA 60
GCAAGCCTAG AGCTTGCCAT CAAGCAGTGG GGCTCTCAGT AAGGAACTTG GAATGCAAGC 120
TGGATGCCTG GGTCTCTGGG CACAGCCTGG CCCCTGTGCA CCGAGTGGCC ATGGCATGTN 180
TGGCCCTGTC TGCTTATCCT TGGAAGGTGA CAGCGATTCC CTGTGTAGCT CTCACATGCA 240
CAGGGGCCCA TGGACTCTTC AGTCTGGAGG GTCCTGGGNC TNCTGACAGN AATAAATAAT 300
TTCGTTGGAA A 311

```

(2) INFORMATION FOR SEQ ID NO: 2130:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 309  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02435  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2130:

```

GATCCCAACT GCTCCTGCGC CGCCGGTGAC TCCTGCAAAT GCAAAGAGTG CAAATGCACC 60
TCCTGCAAGA AAAGCTGCTG CTCCTGCTGC CCTGTGGGTT GTGCCAAGTG TGCCAGGGC 120
TGCATCTGCA AAGGGGCGTC GGACAAGTGC AGCTGCTGCG CCTGATGCTG GGACAGCCCG 180
CTCCAGATG TAAAGAACGC GACTTCCACA AACCTGGATT TTTTATGTAC AACCTGACC 240
GTGACCTTTT GCTATATTCC TTTTCTATG AAATAATGTG AATGATAATA AAACAGCTTT 300
GACTTGAAA 309

```

(2) INFORMATION FOR SEQ ID NO: 2131:



(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 307  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02436  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2131:

```
GATCCTGGCC TCGCAGTTCC TATCCNTGA CCCAGAACAG CTCACCAAGG AGCTGCAGCA 60
GCATGTGAAG TCAGTGCAGC CCATACAAGT CCCAAANAAG ATAGAGTTTG TTTTGAACCT 120
GCCAAAGCTG TCACAGGGAA ATTCAACAGA CCAACTTCG NGNCAAGGAG TGGAAGATGT 180
CCGGAAGAGC CCGTNCGAGT GAGNCGTCTA GGAGCATTCA TTTGGATTCC CTCTTCTTTC 240
TCTTTCTTTT CCCTTTGGGC CTTGGCTTAC TATNATGATA TGAGTCCTTT ATGAAGACAT 300
GATGAAA
```

307

(2) INFORMATION FOR SEQ ID NO: 2132:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 306  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02437  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2132:

```
GATCCTGGTG GCGACCATGG AGAGGAAACT GGAGGCGAGG GATGGAGCTG AAANCTTGGC 60
GGCCAGAGA GAGGTCCACC CCAAGCAGCC TGAGCCCTCA GCCACCCCCC AGCTCCCTGG 120
CAGCTCCCCT CCACCTGCCA ATGTCAGCGC CACTCTGGTG TCTGAAAGGA ATAAGGAGAA 180
CAGGACAGAC TAACTTTTAA AATGATATGA AGAAATCAGA GGTGAAAATT GTACATTGGG 240
AATATATTTA TGCAAATTTT ATTGAAATTT ATTGTAAATA AAGATTTTCT CAGTGGTCTA 300
GANAAA
```

306

(2) INFORMATION FOR SEQ ID NO: 2133:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 306  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02438  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2133:

```
GATCTGGGCT GGTCCCTTTC CCATAAAATN AGGTCCCTGG TTGTATGTTT CCATAGCACC 60
CCATACTTCC TCTCTNAGAA TAATCATTTT CCTTGTAATG CTCAGCATCC GCATCCTGCT 120
TGACTGCAAA CTTGCTGAAG GTAGGGACTG TTTGTCTTGG ACTTCGCTGC CAGTCCTTAG 180
AACAGTGTCT GGGACACAGT GTGTTCTCAA ATATTTGTTG CTGGAATAAA TGAATGACCT 240
AAATCAGTCT TTTAGGGATT TACTGTAAAC CACCATGGGA AAATTAAATA AATGCGGGGA 300
AGGAAA
```

306

(2) INFORMATION FOR SEQ ID NO: 2134:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 305  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02439  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2134:

```
GATCTGACCC CACAGCCTTT GGCCTGCTCA CCCGACCAGC CTGGGCCGCA TTCCCTGCAG 60
GACCTCCCGG GTCAGGCAGG GCGGCCCCCT GCTCCACACA CTGCTGCATC TTGGGTCTCA 120
GGGACCCAGA CAGATGGACT TACATGGAGC TGGGCACTGC CCTGCCTCAA CAGGGTCCAT 180
TGCCTCCTCG CCTCCAGAAC TTGGAGCAGG GAAGTGGGCA CCCTGAGGCC TCCAGCACCA 240
GTTCCGTCAT TCTCGTTCCT GGGGAACCCC CACTCTGACC TGTTATTAA GTTCACATTT 300
TGAAA 305
```

(2) INFORMATION FOR SEQ ID NO: 2135:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 251  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02441  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2135:

```
GATCAACCTG AGAAAAATTG CTGAGCTCAT GCCAGGAGCA TCAGGGGCTG AAGTGAAGGG 60
CGTGTGCACA GAAGCTGGCA TGTATGCCCT GCGAGAACGG CGNGTCCATG TCACTCAGGA 120
GGACTTTGAG ATGGCAGTAG CCANGGTCAT GCAGAAGGNC AGTGAGAAAA ACATGTCCAT 180
CAAGCANTTA TGGANGTGAG TGGACAGCCT TTGTGTGTAT CTCTCCAATA CAGCTCTGTG 240
GGCCAAGTAA A 251
```

(2) INFORMATION FOR SEQ ID NO: 2136:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 301  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02442  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2136:

```
GATCTGCATC CCCAAAAGTA TCACTCCTTC TCGAATCCTT CAGAACATCA AGGTGTTTGA 60
CTTCACCTTT AGCCCAGAAG AGATGAAGCA GCTAAATGCC CTGAACAAAA ATTGGAGATA 120
TATTGTGCCT ATGCTTACGG TGGATGGGAA GAGAGTCCCA AGGGATGCAG GGCATCCTCT 180
GTACCCCTTT AATGACCCGT ACTGAGACCA CAGCTTCTTG GCCTCCCTTC CAGCTCTGCA 240
GCTAATGAGG TCCTGCCACA ACGGAAAGAG GNAGTTAATA ANNGCCATTG GANGCATNAA 300
A 301
```

(2) INFORMATION FOR SEQ ID NO: 2137:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 302  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02443  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2137:  
 GATCCGAGAG GGCATGGCCG CCCTGCAGTC TGACCCCTGG CAGCAAGAGC TCTACCGCAA 60  
 CTTCAAAAGC ATCTCCAAGG CTTGGTGGG GCGGGGTGGT GTGGTCACCA GCAACCCACT 120  
 TGGCTTCTGA ATACTCCCGG CCAGGGCCTG TCCCAGTTAT GTGCCTTCCC TCAAGCCAAA 180  
 GCCGAAGCCC CTTTCCTTAA GGCCCTGTT TGTCCCGAAG GGCCCTAGTG TTCCAGCAC 240  
 TGTGCCTGCT CTCAAGAGCA CTTACTGCCT CGNAAATAAT AAAAATTTCT AGCCAGGTCA 300  
 AA 302

(2) INFORMATION FOR SEQ ID NO: 2138:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 297  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02444  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2138:  
 GATCATCCAG AAGGAGCCCC TTGAAGTGGC CCAAGCCAG CTCTCTGCAT TTCGTACTCT 60  
 CCTGTTTTCT GCACTTGGTG AAGAGGAGAA GATGATGGTG AACAACATATC GCCCACTTCA 120  
 ACCCTTGATG AACCAGGAAGG TCTGGGCGTC CTTCCAGGCC ACTAATGAGG GCACAAGGTC 180  
 CTAGAGACAT TAGGTCCACA TGAATAGCAG AACTGACTTT GAAGGAAGGA AGCGTTGTTT 240  
 CCAAGTTTC ACAATGTGAT TGTACATGAC TTCTGAAATT AAAAAGAGAG CATGAAA 297

(2) INFORMATION FOR SEQ ID NO: 2139:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 295  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02445  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2139:  
 GATCTATGCC AGCAAAACAT CATTTTGAGA CAAACATTTT TGTGGCAGAT GTTTTTCCCTA 60  
 AAAAGTACTA TATCATCCAA GAAATATTTG AGTAAATCC CTTGTTCTTT TGGGTGACAT 120  
 TAACTGACAT TTGCTTTTTT TCAAGACCTA ATAGAAAATA AGAAAGCCCA TAATGTATTT 180  
 AGAAACAGGA ATCCTCAGAG CAATTCTCTG TATTCTCATA TAATTTCAAT GTAAAACAGA 240  
 AAACATATTG ATGTGTTGGT GATAGGCTTG AATTATTAAA AACTTCAAAA ACAA 295

(2) INFORMATION FOR SEQ ID NO: 2140:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 294  
 (B) TYPE: nucleic acid

(C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02446  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2140:

```

GATCGAGGCT GCAGGATATG CTCAGACTCT AGAGGCGTGG ACCAAGGGGC ATGGAGCTTC 60
ACTCCTTGCT GGCCAGGGAG TTGGGGACTC AGAGGGACCA CTTGGGGCCA GCCAGACTGG 120
CCTCAATGGC GGACTCAGTC ACATTGACTG ACGGGGACCA GGGCTTGTTT GGGTCGAGAG 180
CGCCCTCATG GTGCTGGTNC TGTGTGTGT AGGTCCCCTG GGGACACAAG CAGGCGCCAA 240
TGGTATCTGG GCGGANTCAC AGAGTTCTTG GAATAAAAGC AACCTCAGAN CAAA 294

```

(2) INFORMATION FOR SEQ ID NO: 2141:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 292  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02447  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2141:

```

GATCTGGTTG GTGGATGAAC AAGTGTCACG CTGGACATCT CAATGGNGTT TATTACCAAG 60
GTGGCACTTA CTCANANGCA TCTACTCCTA ATGGTTATGA TAATGGCATT ATTTGGGCCA 120
CTTGGANAAC CCGGTGGTAT TCCATGAAGA ANCCACTATG AAGATAATCC CATCAACAGA 180
CTCACAATTG GAGATGACAG CAACACCACC TGGGGGGAGC ANACAGGTGG AGACGTTAAA 240
NGCCGTTTAN TGNGTTTTCT NTTTAAAGNC TTTATCTGAC CNGGGGTANN GN 292

```

(2) INFORMATION FOR SEQ ID NO: 2142:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 280  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02448  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2142:

```

GATCGGAAAA AAATTCTTGA ACGCAAAGCC AAGTCTCGAC AAGTTGGAAA AGAGAAAGGC 60
AAATATAAAG AAGAACTTAT TGAGAAAATG CAGGAATAAA TAGAACCTGT TGTGCAACCA 120
CGGTTTAACC GGAGATTTTG AGGCTAGGGT GTGTTTCTTT CGAACTTTTC GGAATGTCTG 180
GAACATTTCA TTTCTGTGTT TGTTACCTGT GCCTCTGTAA ATCTACTTTT GCAATTTTAA 240
GTAATAATTT TATGAATAAN AATGGGAAAT GCTTCCTAAA 280

```

(2) INFORMATION FOR SEQ ID NO: 2143:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 280  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02449

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2143:

```
GATCCCATAA CAGGCTACCC CTTGGCCTCA TGCTGGAGTT GTGTGTGTCT GTCTTCATCC 60
CAGGCTGAGC TCCTTGAGGT GAGGATGTTG TGCTGTTTGC CTCCCTCACA GTGCCTTGGT 120
CTTAGTGAT GCCCAGTTGT CTTGTGAATG ACTTTTAAGA AGTGTACTTA AGAGAAAAAT 180
CCTACNTAT NNNNNGTAAT TACAAGTCAT GTTTTGTNG CTTAAAGGTG ATAAATCAGT 240
GTATATNATN NGNTAATGTC CATTAAAGCC AGTTTTTAAA 280
```

(2) INFORMATION FOR SEQ ID NO: 2144:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 278  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02450

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2144:

```
GATCCTAGAG CCTGACGTTT AGTGAACCCA TGTTTCTGGG TGGGTGAAAG GGGCCCAACC 60
CTGCCCCTT CAGCCCAGCC CGCCCAAGGG GACTTGTGCC AGCAGAACAT GTNGGAGGAA 120
GAAGCCCCGT TTCCAGGGCA TCCGCAGCCC AGGGTAGGGA GAAATATTCT CTCCACTTTG 180
GGGGAGAGTT CTTGCTCTCG ACCTAGTGGT TTCTACTCTC ACCGACTTAT TCTGATTCA 240
GAAATAAAAT GAAATGTCTT ATTTTGGGA AAGTTAAA 278
```

(2) INFORMATION FOR SEQ ID NO: 2145:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 315  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02452

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2145:

```
GATCCCACTG GGGCCTNTGG GAAGGNGACA GACTTATNAC TAGATGATTC GCTGGTGTCC 60
ATCTTTGGGA ATCGACGTCT CAAAAGGTTA TCCATGGTGG TACAGGATGG CATAGTGAAG 120
GCCCTGAATG TGGAACCAGA TGGCACAGGC CTCACCTGCA GCCTGGCACC CAATATCATC 180
TCACAGNTCT GAGGCCCTGG GCCAGATTAC TTCCTCCACC NNTCCNTATC TNACCTGCCC 240
AGCCCTGTGC TGGGGCCCTG CAATTGGAAT GTTGCCAGA TTTCTGCAAT AAACACTTGT 300
GGTTTGCGGG TCAAA 315
```

(2) INFORMATION FOR SEQ ID NO: 2146:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 275  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02453

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2146:

```
GATCCCAGGA CCATTGGCT AGTGTGCCTA GGTGACCACA TGATTGCTGT TTTACCAGGA 60
ATGCAGCATC CCATTGACAA AACAAGTGCT CTGAGAAGGT TTAAAATACT ACAGNGAATA 120
TGGGANCACA GNCCTTGAAA TTTAGCTGAG TTGTAACAGC TGAAACTCCA AGAGGTGTCT 180
TCCTTGTTTN GAGGTGNACT AGTGTGCTT CCAGAGGGCA GCTTGAAACC CGTAAAGCCT 240
GTTTTGGGGA ATCCTTTTTT GNCTTGCTTT GNTTN 275
```

(2) INFORMATION FOR SEQ ID NO: 2147:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 274  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02454

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2147:

```
GATCATCAAT GATTTATTGG CACGTTCTAT TGGGATGGTC GAAGTTAATA CAGTAGACAA 60
ATACCAAGAT AAGGGACAAA AGTATTGTCC TAGTATCTTT TGTTAGAAGT AATAAGGATG 120
GAACTGTTGG TGAACCTTTG AAAGATTGGC GACGTCTTAA TGTTGCTATA ACCAGAGCCA 180
AACATAAACT GATTCCTTCTG GGGTGTGTGC CCTCACTAAA TTGCTATCCT CCTTTGGAGA 240
AGCTGCTTAA TCATTTAAC TCAGAAAAAT TAAA 274
```

(2) INFORMATION FOR SEQ ID NO: 2148:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 266  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02455

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2148:

```
GATCGCAGAG AAGGCAGCTG ACATTATCAA GGGGCAGCCT GCACTCTGGG ACAAAGATGT 60
CCCTGTCTAC AAGCCCAGGA CGCTGGCCAC CCAGCGCTAA GACAGTTGCT GCTGGAGGAT 120
GACCAGGGAA GCCCCTGAT AAGCCAAGAG GGCCAGCACA GCCCTTGCTC CCAGGCTCCT 180
GCCTGAAACT ATCTAGCACA CTAGGACCCA GGTGGTACCC TACTCAGTGG CTGAGAATTG 240
GATAAAGTCT TGGGAAATGA GACAAA 266
```

(2) INFORMATION FOR SEQ ID NO: 2149:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 265  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02456

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2149:

```
GATCTTTAAC AAATGTTTTA AGCAATTTTA AAAAGGCAGG ATGTTATTGA CATTATACAC 60
```

TGAAGTCTTA ACATTTTAAC ATTTATAGTG CTTATTGCA AAATTGTATA ATTAGGAATT 120  
 ATTTTCAGAGA CAATGTTTTC TTTTTCAGGT GAGTAGTTC GCCTAATAT CATTGGAGTA 180  
 CATTCTTTAT ACTGTTTGTG AAATTAATAC TAGCATATTA AGTGACAAA TAGATTTAGA 240  
 AAACAATAAA AAATTGCATG CTAAA 265

(2) INFORMATION FOR SEQ ID NO: 2150:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 264  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02457

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2150:

GATCCTAGTG TTTTAATTAC CTGTGTGCAG CTATTTTAAA TAGCATTTTA CTTGAATAAT 60  
 ATGTATGTTG TCATTGTTTC ATGCTATACT TTGTGGGATA AAAGTGGGA ATGAGTGTGG 120  
 TAAGAAATTT ATAAAGTTTT GCTTTTAAAA CGTGGACATA ACTCATTTTT CTAGTTTTTG 180  
 ACAATTGTGT GTTTTAGTGT CTAGTCTGCA GAGAGCTGTG TGATTAATAA ACGTGAATT 240  
 AACAGAATTT CCTCTCCCTG TAAA 264

(2) INFORMATION FOR SEQ ID NO: 2151:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 259  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02458

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2151:

GATCCTGGGC TCATAGGCAG TCCCTTTCAC TTCCTTGTCT TGCTCCCTGC TATGCTGGAG 60  
 ATGAATGTGA CTAAAGGGC CATCTTGCTG GCTTAATGTG TGGCTGGAGA GACCAGCCTG 120  
 GAGACAATGT GGCAAATGG GGCGCTTCAT CCAGTCTGTC TAAGCCCTGT CGACTTGGGG 180  
 AGGTGATTTT TTTCTGGTT CTATATGTNA AGCAAATAA ATGTTTTAA ATTTAAAGCA 240  
 NNAAAGCAGA ATGTGAGTN 259

(2) INFORMATION FOR SEQ ID NO: 2152:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 255  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02459

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2152:

GATCAAAGCT GGACTGGAAA TTGTATCGTG TAATTATTTT TGTGTTCTTA ATGTTATTTG 60  
 GTACTCAAGT TGTAATAAC GTCTACTACT GTTTATNCCA GTGTCTACTA CCTCAGGTGT 120  
 CCTATAGATT TTCCTTCTAC CAAAGTTCAC TTTCACANTG AAATTATATT TGCTGTGTGA 180  
 CTATGATTCC TAAGATTTC AGGGCTTAAG GGCTAACTTC TATTAGCACC TTAGTGTGTA 240

AGCAAATGTT ACAA

255

## (2) INFORMATION FOR SEQ ID NO: 2153:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 248
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02461

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2153:

```
GATCTGTGCA GCAAAGCACC ATGGTACATG TNNTACCTAT GTAACAAACC TGCACATCCT 60
GCACATGTAC CCTGGAACCT AATAAAAGTT GGAAATTTTT AAAAAGAATG AATAAGACCT 120
GGTATTTGAT AGCACAACAG GGAGACTATA GTCAACAGCA ATTTAATTGT ATATTTTAAT 180
ATGACTAAAA GAGTATAATG GNTTGTGTTGT AACACAANTA AATGCTTGAG GGGATGGNCA 240
CCCCNAAA 248
```

## (2) INFORMATION FOR SEQ ID NO: 2154:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 245
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02462

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2154:

```
GATCTTAAGC TTTGATAAGA GCTGTCCTGT GGCTGAGTAT GGTGTGTATG TNAAGGTGCT 60
TCCATCCAGG CTGGGTTTCAG AAGCCATAGC TGNGACTAAT GCAAGCTGGC CGAAGCCTTG 120
CTGAAAGAAG CTTTAGCTGG AGAGGCAAAG TGGCGGGAGT GGCAGGAGTG GATNNGATAA 180
GATGTGGTTT AAGTNATGGG TNCAGCCTGA TTCTGAGCAA TAATAAAGAN TTTCTTTTGC 240
CCAAA 245
```

## (2) INFORMATION FOR SEQ ID NO: 2155:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 244
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02463

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2155:

```
GATCCAGGAA GCTCCCAAAC CAGAGTGTGA GAAGGCACCT CTTGCCTTTC AGGAGAGTAA 60
GAACCTCTGC GAANCATGGA GAACTTTATG CAACAATTAA AGGAAAGTGG CATGACAATG 120
GAGGAGCTAA AATATTCTCT GGAGCTGAAG AAAGCTGAGT TGAAGGCAAA ATTGTTGTAA 180
CACTACAGCT GAGCAGATGT AATAGAAATA AACCTATGAA TAAATTTNCT TCTTGGTTCT 240
GAAA 244
```

## (2) INFORMATION FOR SEQ ID NO: 2156:



- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 237  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02464
- (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2156:  
 GATCCTATAT CTTGGTNAAT ATGCTCCCAG ATACTTTAAA CATGGCAACC TTTTGGCCTA 60  
 AGAGAATGTT TGTTTCATGGA AAAAAGCTTT TGAGATGAGA GGGTGTCTTA CTTTCTTGTG 120  
 GCAATTGATT TTCTGTTTTA ACACCCTTTG GGTAAAATCT TGCAAAGAGC TTTTATAATT 180  
 NGTTTTACTG AATTGTATGG AGATTGTATA CCAAGTAAAG CTCTTTTAAA TTACAAA 237
- (2) INFORMATION FOR SEQ ID NO: 2157:
- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 234  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02465
- (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2157:  
 GATCCACGCT GGGCCGAGGA TGGGACGTTT TTCTTCTTGG GCCCGGTCCA CAGGTCCANT 60  
 GACACCCTCC CTCCAGGGTC CTCTCTTCCA CAGTGGCGGG CCCACTCAGC CCCGAGACCA 120  
 CCCAACCTCA CCCTCCTGAC CCCCATGTAA ATATTGTTCT GCTGTCTGGG ACTCCTGTCT 180  
 AGGTGCCCCCT GATGATGGGA TGCNCTTTAA ATAATAAAGA TGGTTTTGAT TAAA 234
- (2) INFORMATION FOR SEQ ID NO: 2158:
- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 233  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02466
- (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2158:  
 GATCCCTAAG CTGTAGAACA TTTTAACGTT GATGCCACAA CGCAGATTGA TGCCTTGTAG 60  
 ATGGAGCTTG CAGATGGAGC CCCGTGACCT CTCACCTACC CACCTGTTTG CCTGCCTTCT 120  
 TGTGCGTTTC TCGGAGAAGT TCTTAGCCTG ATGAAATAAC TTGGGGCGTT GAAGAGCTGT 180  
 TTAATTTTAA ATGCCTTAGA CTGGGGATAT ATTAGAGGAA GCAGATTGTC AAA 233
- (2) INFORMATION FOR SEQ ID NO: 2159:
- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 229  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02467  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2159:  
 GATCTGTGCA CACTTTCTAA ACAGCTTGTN ATGCAAGTNT GAGCCTATTG TGTTACTTGA 60  
 CCTTATTTTG GAAGTTTGA ATTGGCCTAG GAGGAAACCC AGAAATGAAC CAGGGGTATG 120  
 TNATCACTTT TTTNATATCA AGTCCTCACC CTCCTNCCAC ATAATGCTCT ATCCGGCTAA 180  
 GGTGGAACCT CTGAAGTTGG AGAAGGTGGA ATAAAGTTAC ACCTGGAAA 229

(2) INFORMATION FOR SEQ ID NO: 2160:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 227  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02468  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2160:  
 GATCCCTGCG AATTACGAAA ACTACTACAT CCATGATTGC CCCAACCCCC TTGGGGTGGG 60  
 GCAGAAAGTG AAGCATCCCA ACTGACTAGA GACTCAGGCC CTGCAGGNCC TTATAGAACC 120  
 TGTGGCCATC CCTGAGCACC CTGCCACCAG GTGACCTCGG CCATACTCAC TGCCCCCCTT 180  
 GGGCACCCAC TCACNTAGA ATAACTTAA CAGTGTCCCG TGGTAAA 227

(2) INFORMATION FOR SEQ ID NO: 2161:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 226  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02469  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2161:  
 GATCTTACGA TGCCCTCTGT ACTGACCTGA AGGAGACCTA AGAGTCCTTT CCCTTTTGA 60  
 GTTTGAATCA TAGCCTTGAT GTGGTCTCTT GTTTTATGTC CTTGTTCTTA ATGTAAAAGT 120  
 GCTTAACTGC TTCTTGTTG TATTGGGTAG CATTGGGATA AGATTTTAAC TGGGTATTCT 180  
 TGAATTGCTT TTACAATAAA CCAATTTTAT AATCTTTAAA TTAAA 226

(2) INFORMATION FOR SEQ ID NO: 2162:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 224  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02471  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2162:  
 GATCTGCCTT GCTCACTATT TGCCTATTGG CATATATGAT TACTTTGCTA AAAGACATTT 60  
 TGGCCAAGAC AAGCCATNT CCAGAGCTCT AAGAATGCCT AACTACAAGA AAAAGGCCAC 120

CTAGGCAATG GAAGCCCTCA AAGAAGTCGG AATGTCATAG TCTTGAAATG AAAGGGAAAC 180  
TGGGAAACTG GGTTCCTCAT TAAAGTTGTT TCCCACTCTN TAAA 224

(2) INFORMATION FOR SEQ ID NO: 2163:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 221
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02472

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2163:

GATCTAATTT GATAACAAC ATGGCTTGTG TGAAACTGA GCAGGTGTTT GTTACCCAT 60  
AGTGTCTGT GTAGTTATTG CTTANTCTGC AGAAAATAAT GACTTAGATG AGATGTCTGA 120  
CTTGCTTTCA CTTATTAAAC ATGTTACCA TGGGATGATG TCTGTAACAT CAGATATTGT 180  
TCAACTAGAC TAGGATTTAA TAAAAATTGT GAAAGCTTAA A 221

(2) INFORMATION FOR SEQ ID NO: 2164:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 210
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02473

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2164:

GATCTTAATT TACAGTTCCA TGGGATTAAA ACAAGTTTGC ATTTATGTAA TTTGCATTAC 60  
TTTAAAAATT ACAACAACAT AATCTCTGAA ACTTACTTCA ATCAATTCAC ATCCCTACAA 120  
CTGTTAAGAT TTATTTTGTG ATTAGNATCT TATAGTGGGT ATTCTTTTNA GTGCTGATAT 180  
TTCTATTCAT TAAAATCCTG TGNACACAAA 210

(2) INFORMATION FOR SEQ ID NO: 2165:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 209
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02474

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2165:

GATCCTGCAT TAAATTTTTA TTTGTGAAAA TTTGAAATTT ATGAGCTATA ACTTATAAAG 60  
TTTGCCTTCT TATGNCTAAA ATCTTTTAAA GGATTATTTG CATTTATGTA AAAGTGGAAA 120  
TGAAGTTATA TATGAGTGCA AAGAAATTGA CTTCTGCTCA AATATGTGTT GATACCCTAC 180  
AGTAAATTGA ATTAAATTTT TATCCCAA 209

(2) INFORMATION FOR SEQ ID NO: 2166:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 203

(B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02475  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2166:  
 GATCAGTCAA TTTTCCGTCG TCCGTAACCA GCGGGCCCCCT GGTCAAGTNC TGGCTCTGCT 60  
 GTCCTTGCCCT TCCATTTCCC CTCTGCACCC AGAACAGTGG TGGCAACATT CATTGCCAAG 120  
 GGCCCAAAGA AAGAGCTACC TGGACCTTTT GTTTTCTGTT TGACAACATG TTTAATAAAT 180  
 AAAAATGTCT TGATATCAGT AAA 203

(2) INFORMATION FOR SEQ ID NO: 2167:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 200  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02476  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2167:  
 GATCTGGACT TCGAAACTTT CCTCATGGAT TCTGAATAAA AGAAACACTC TACACCTCTT 60  
 AAATCAAGGT CATGTAGATA ATGACTTTGT TATAAATGCT ACAGCTGTGA GAGCTTGTTT 120  
 CTGATTTCAT TGTTGCTTC TGTAATTCTG AAAAAGTTTA AACTGGTAGA ACTTGGAATA 180  
 AATAATTNGT TTTAATTAAA 200

(2) INFORMATION FOR SEQ ID NO: 2168:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 200  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02477  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2168:  
 GATCTTAAGT GTCTCCTTGC TCTGGTAAAA GATAGATTTG TAGCTCACTT GATGATGGTG 60  
 CTGGTGAATT GCTCTGCTCT GTCTGAGATT TTTAAAAATC AGCTTAATGA GAGTAATCTG 120  
 CAGACAATTG ATAATAACAT TTTGAAAATT GGAAAGATGG TATACTGTTT TTAGAGGAAT 180  
 AAACGTATTT GTGGTTTAAA 200

(2) INFORMATION FOR SEQ ID NO: 2169:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 197  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02478  
 (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2169:

```
GATCCAAATC CCAGCTCTAC TGTCTCGTCC GAATTAGCCT TGGGAAAATC ATTTATATGC 60
TAAATAATTT ACCTTTTAT CTAGGAGATG AAAAGAGGAT AATGTTTCCT TCCATAAAGA 120
AAGTTCTTGT AAGAATCAAA AGAAATGGTG AGCTTTAAGT GGTTCGTAAA CCATAAAACA 180
CATCATAAAA GTTCAAA 197
```

(2) INFORMATION FOR SEQ ID NO: 2170:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 201  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02479

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2170:

```
GATCCATGNC ATCTCTCTCT TGCCTGAGGG GAAAGAGAGA TGGGCCAGGC AGAGAACAGA 60
ACTGGAGGCA GTCCATCTAG GGAANNNNAC TGTGAGGCCA TACTTGTGAA ACGTCTGGAC 120
TGCTATTCTA GAGCTTTTAT TTGNGTGTGT TCGTTGCACA NCTTGTTTAA AATGTTTAAT 180
AAAAGCTTTA TAAACTTTAA A 201
```

(2) INFORMATION FOR SEQ ID NO: 2171:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 218  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02480

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2171:

```
GATCCCCCAA GTACAGGCGC TAATTNTTGT GATAATTTGT AATNGTGACT TGTACTCCCC 60
GGCTGGCAGC GTAGTGGGGC TGCCAGGCCC CAGCTTTGTT CCCTGGTCCC CCTGAAGCCT 120
GCAAACGTTG TCATTGGCAG GGAAGGGTGG GGGGCAGCTG CCGTGGGGNG CTATAAAANT 180
GACAATTAAT CGNGACANTN GTNTTTTATT TCCTNAAA 218
```

(2) INFORMATION FOR SEQ ID NO: 2172:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 195  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02481

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2172:

```
GATCCTTGCA GGGAGCTTGG AACCTTAGTG CACCTACTTC AGTTCAGAAC ACTTAGCACC 60
CCACTGACTC CACTGACAAT TGAATAAAG ATGCAGGTGC TCGTATCTCG ACATTCATTC 120
CCACCCCNCT CTTATTTAAA TAGCTACCAA AGTACTTCTT TTTTAATAAA AAAATAAAGA 180
TTTTTATTAG GTAAA 195
```

## (2) INFORMATION FOR SEQ ID NO: 2173:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 194
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02482

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2173:

```
GATCCGGCAA CATCAACCCG AGTCATTCGT TCTGTGGAGG GACAAGTGGA CTCAGGGCAG 60
CGCAGGCTGA CCACAGCACA GCCAACACGC ACCTGCCTCA GGACTGCGAC GAAACCGGTG 120
GGGCTGGTTC TGTAATTGTG TGTGATGTGA AGCCAATTCA GACAGGCAAA TAAAAGTGAC 180
CTTTTACACT GAAA 194
```

## (2) INFORMATION FOR SEQ ID NO: 2174:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 192
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02483

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2174:

```
GATCAAATGG AAAGGAGAGG AAAGAACTCA GTGCTGCCTA TTAGTAGTTA ATTCTGTCAC 60
TCACCACTAC ATCACTTGAG ACAAATCTAT GCCACTCAGA ATCTCCTTCT TTCCTGGACT 120
TAACTCTAAT TCTAGAGTCT CTGTTACTGC TTGGGCTATA CCTGGGCATA CTAATAAAGT 180
ATGGTATTGA AA 192
```

## (2) INFORMATION FOR SEQ ID NO: 2175:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 192
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02484

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2175:

```
GATCAGAACT GTTACCAAAA AACAACTGTC AGTTTTATTG AGATGGGAAA AATGTAAACT 60
CGANNNTTAT TACTTAAGAC TTTATGGGAG AGATTAGACA CTGGAGGTTT TTAACAGAAC 120
GTGTATTTAT TAATGTTCAA AACACTGGAA TTACAAATGA GAAGAGTCTA CAATAAATTA 180
AGATTTTGA AA 192
```

## (2) INFORMATION FOR SEQ ID NO: 2176:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 187
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single

(D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02486  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2176:  
 GATCGTCTTG GAAGGGAGTG GTTTTCAGAG ACATTTTCAGA AAGTGAAGGA GAAACTCAAG 60  
 ATTGACTCAT GAGGACCTGA AGGGTGACAT CCCAGGAGGG GCCTCTGAAA TTTCCACAC 120  
 CCCAGCGCCT GTNCTGAGGA CTCCCTCCAT GTGGCCCCAG GTGCCACCAA TAAAAATCCT 180  
 ACAGAAA 187

(2) INFORMATION FOR SEQ ID NO: 2177:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 187  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02487  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2177:  
 GATCATTGAA ATGCTGAAAA TTTTAACAGT CTTCTTAAAA GTATTGAGGG GGCAAAAATT 60  
 ACCAATTATG GTATACAAAA ATAAGCCTAT AAATGTNTTT CACATTGCTA ACTTGAGTTT 120  
 CAGTTGATTC AGTTTGTAAT AACTAGTAAT GAGCTTCTGT TTACAATAAA AATNCTGTAA 180  
 ATTGAAA 187

(2) INFORMATION FOR SEQ ID NO: 2178:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 186  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02488  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2178:  
 GATCAGTTGC TTATAGATAA TGTTCAATGA CCTCAAGACA TATATTTTGT AGAAATTATC 60  
 ATTTTAAAAA ATTTGGTCTA TACTGATTGT TTTCAGTGAT TCCAATATTA TTAATTATAA 120  
 CACTGACCTC TGGAAAATAT TTTGTNCACA AGAAATAATA AAGTATAATG ATTTGTNGCA 180  
 NNNAAA 186

(2) INFORMATION FOR SEQ ID NO: 2179:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 179  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02489  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2179:

GATCCACAAG GCCTGAGGAG CAGTGTGGGG GGACAGACAG GAGGTGGATT TGGAGACCGA 60  
 AGACTGGGAT GCCTGTCTTG AGTAGACTTG GACCCAAAAA ATCATCTCAC CTTGAGCCCA 120  
 CCCCCACCNC NTTGTCTAAT CTGTAGAAGC TAATAAATAA TCATCCNTNC TTGCCTAAA 179

(2) INFORMATION FOR SEQ ID NO: 2180:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 179
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02490

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2180:

GATCCAATGG AGCCTGGNGA GGTGTGCCCA GAAAGCTTGT CTGTAGCGGG TTTTNTGAGA 60  
 GTNAACACTT TCCACTTTTT GACACCTTAT CCTGATGTAT GGTTCCAGGA TTTGGATTTT 120  
 AATTTTCCAA ATGTAGCTTG AAATTTCAAT AACTTTGCT CTGTTTTTCT AAAAATAAA 179

(2) INFORMATION FOR SEQ ID NO: 2181:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 177
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02491

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2181:

GATCTGTCCA CTCCTGGTCA TTGGTGGATG TTAAACCCAT ATTCCTTTCA ACTGCTGCCT 60  
 GCTAGGGAAA ACTGCTCCTC ATTATCATCA CTATTATTGC TCACCACTGT ATCCCCTCTA 120  
 CTGGGCAAGT GCTTGTCAAG TTCTAGTTGT TCAATAAATT TGTTAATAAT GCTGAAA 177

(2) INFORMATION FOR SEQ ID NO: 2182:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 176
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02493

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2182:

GATCAAAAAA CCACAGGGCT TTTGGGCACT GCCTCCTTGG GAAGTTAGTG GCCACAGAAG 60  
 AGAGATGAAA CCTGTAAGAA GTCTGGAGTC TTTTGGAACT TCAGCCATTT CCCAGGTTG 120  
 TTACTTTCTT AGTATGTACA GTCTTCTCAG GATGAGCAGT AAAACCTTTG AACAAA 176

(2) INFORMATION FOR SEQ ID NO: 2183:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 175
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single



- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS02494
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2183:

```
GATCCTAAAC TCTCTAGCTT AAGTGTAAT GAAGTACAGT AGTTTCCCTA CTGAACCCTA 60
CCTCTTGTGT CCCTGGAACC TTCTAGAACA CCTGCCTTCT ACCCTCTGGT TGGGAGATGC 120
AGCCACCACA TCCCTTCATA TCATACTGTT TTGAATAAAT TTTCAAATCC TTAAA 175
```

(2) INFORMATION FOR SEQ ID NO: 2184:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 166
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS02495
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2184:

```
GATCCGGAGG GCCCAGGAGA ACCGGAGCGT GCTTCAGGGT GCCCCGAGAA CAGGAGCTGC 60
TCAGCCAAGA ACTGTGGCGG CGGCTGCTGC CAGGATGCCG AAGATACCCC ACTAGCACCC 120
CTNAGGGGGT CATGTGGTCA ATAAAAGTCC TTAGCTGCTG CCTAAA 166
```

(2) INFORMATION FOR SEQ ID NO: 2185:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 164
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS02496
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2185:

```
GATCAAAATC AAGAAATCCG GGCATCACAG AGAAGTTGGG TTTAGGACAG CAGGTGCTGT 60
TCCGAGACTC AGTCCTAAAG GGTTTTTTTT CCCACTAAGC AAGGGGCCCT GACCTCGGGA 120
TGAGATAACA AATTGTAATA AAGTAACTTC TCTTTTCTTC TAAA 164
```

(2) INFORMATION FOR SEQ ID NO: 2186:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 164
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS02497
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2186:

```
GATCAGCCCC TTAAATNAG TTCTAGAGCA GGTCTTCTGT TCCAGAAGGG GAGAAGCATA 60
GAGGGCCTGT GAGCTCACGT GTGTTCTTTG TCATAGGGGT GAAAACTAA CTTCAAGTGT 120
CCCTTGTTTG AAATAAATT AGCAGAGTCA CTTTCTATCT TAAA 164
```

## (2) INFORMATION FOR SEQ ID NO: 2187:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 163
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02498

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2187:

```
GATCTAATGG TTTTATAAAT NAAAGTTCCC CTGGACAAGT TCTCTTGCCT GCCACCATGT 60
AAGATGTACC TTTGCTACTC ATTCACCTTC TGTCATGATG GTGAGGCCTT CCCAGCAATG 120
TGGAAGTGTG AGTCCATTAA ACCTCTTTCC TTTATAAATT AAA 163
```

## (2) INFORMATION FOR SEQ ID NO: 2188:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 162
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02499

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2188:

```
GATCCTAACC AGGTAACCTG GTCCTNTGAA TTGAAGCTTA TCATATACCC AAAGCCTTGA 60
CTAGAAATAC CTAATAGAA TACCATGGTC ATTGGAAAAA ATAGATAGTN TTNTAAAGTA 120
TTATTTNAAT AAATCCTAAA GTNTGTCTNT CTTCTCCTCA AA 162
```

## (2) INFORMATION FOR SEQ ID NO: 2189:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 154
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02500

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2189:

```
GATCCTGGCC ATGAATGAAA AGGATAAGAA GAAAGAGAAG AAATGAAGTG ACCATCCAGC 60
CTTTCCCAAT NAGACTTCCT CTCCTTCCAC CCCTCATTTT CTTTTTGCAC ACATTACAGG 120
TGGTGTGTTC TGTGATAATG AAAAGCATCA GAAA 154
```

## (2) INFORMATION FOR SEQ ID NO: 2190:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 154
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02501

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2190:

GATCAAAGCC AGCNACCCCC ACCCAACAC ACTCGGTGTC CCANTCATAC TAGGGCCTGT 60  
 GTAAATCCCA GCCTGGCCAT ACCCTCAACC TCAGTGGGCT GGAAATNACA GTGGGCCCTA 120  
 TAGCAGTGGC AGAATAAACT CAGNTGTGTT CAAA 154

## (2) INFORMATION FOR SEQ ID NO: 2191:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 153  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02502

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2191:

GATCGCCCCA CTGCAATCCA GCCTGGGAGA CATAATTCAA ATCTATTTTG GTCTTATATC 60  
 TTCTTATGTT TGTGTTATTT CATGTGTGCC AGTTTCTCTT TTTTCACAA CAATTTATCA 120  
 ATTTGTGGCA ATAAAAATNA TTTACCTTTT AAA 153

## (2) INFORMATION FOR SEQ ID NO: 2192:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 151  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02503

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2192:

GATCATGGTG ATTTTACTGC TGCTTGTGGC TATCGTGGTT GTTGCACTCT GGCCGACCAC 60  
 CAGCAGTNAC ACCTGCCAAT NACAGATGCA AGCCCAACAC CCTTTTGGTA CGCAAAACCT 120  
 GCTCTCAATA AATTCCCCCA AAGCTCTGAA A 151

## (2) INFORMATION FOR SEQ ID NO: 2193:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 371  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02504

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2193:

GATCCCAGGA ACCTTCCTNC TCCAGGGCAG CACAGGACTC AGCCATGTNT GGACCGGCCC 60  
 TGCTGAGGCT ACAGTCACTC TGGAAGCTCT GCGCTTCATC AGGNGGCAGG ACTGTGGCGG 120  
 GAGGGGTCCT TGAAGATGGG TGTGGGGAGC AGTGGGTCAG GAAGTGGGAG CCAGAGGTTT 180  
 GACTCACTTT GCTTTATTTT TCAGGCTACA ATACAGGTCA GAGACAATGG CTTATAAAGG 240  
 TTTAGTGTGG TCTCAGGATG TGACAGGCAG TCCAGCCTGA CCTTTCTGCA CACTCCAGAC 300  
 AAACCTCCCA GACAAGCTCC TTTGTGCCTC TACGTGGAGA GGGTGTGGGA AAGTTATCAC 360

ATTAAAAGGT N

371

## (2) INFORMATION FOR SEQ ID NO: 2194:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 147
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02505

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2194:

GATCAAGAAA GAGATGGAGG AGGAGGACTG AGCCCAGAAT TCACTAGGTT CGAATCCAGA 60  
 NAGCAGTGTG GAAAAAAAAA ACCAAAAANC AACTGNCCAG TTGTTGATAA CCACTAAGAG 120  
 TCTCTATTAA AATTACTGAT GCAGAAA 147

## (2) INFORMATION FOR SEQ ID NO: 2195:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 145
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02506

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2195:

GATCTGTGTC ATTNCCCATG AGGGGCCGGG GCAGGTGGCT GGGTGGGGGC ACAGGCTGGA 60  
 GTATTCTNAG TTCTACTGGT TCTACACTGT GAGGTGGCAA TGGGATTTCG TCAGATGCCA 120  
 CCCAATAAAA TGCCTGTAAC TTAAA 145

## (2) INFORMATION FOR SEQ ID NO: 2196:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 144
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02507

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2196:

GATCGCTACT CTTAAGAATA TACATGTATG TATTCATAGG AACATTTTTT CTCAATATTT 60  
 GTATGATTTCG CTTACTGTTA TTGTGCTGAG TGAGCTCCTG TGTGCTTCAG AAAAAATAA 120  
 ATGAGACTTT GTGTTTACGT TAAA 144

## (2) INFORMATION FOR SEQ ID NO: 2197:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 143
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02508  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2197:  
 GATCAGCTGG AAGCTCACTA GTCATCTCCT GCCCAATCCC CAGAAACCCT GATTCAGGTC 60  
 TGCAGGCTCC TGCGGGCTCA CCACGGCTGC TGGCTCCGGT ACCATGTAAN NCCTAGGAAG 120  
 GTAAAGGNGC AGGCAACCTC AAA 143

(2) INFORMATION FOR SEQ ID NO: 2198:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 141  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02509  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2198:  
 GATCCAGTGA GATAGAATAC ATGTAAGTNT GGTTTTGTA TTTAAAAAGT GCTATACTAA 60  
 GGGAAAGAAT TGAGGAATTA ACTGCATACG TTTTGGTGTT GCTTTTCAAA TGTTTGAAAA 120  
 TAAAAAAAAT GTTANGANAA A 141

(2) INFORMATION FOR SEQ ID NO: 2199:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 137  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02510  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2199:  
 GATCCCTTGT GGCTATGCAG ATACCTACCT CACAGAGTTG TTGTAGAAGA CTGGTGGTTT 60  
 GGTTCAAACC TTGTGATTAA AGAGTTTGTC AAGCATTTTA TTCTTTTGAA TAAAAGCAAC 120  
 ATATCNAAAA CATTAAG 137

(2) INFORMATION FOR SEQ ID NO: 2200:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 135  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02511  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2200:  
 GATCCCTGTT TAACTCCAAA TTACAGTCGG ACTTGGATAC ATCATTTGTA ACATTGTAGG 60  
 AAAGAAAAAA GTCTTGGTTN TGAAAAACGA TTTGCATTTG GGTAATAATA AGTGACCATG 120  
 CTTTGTCTCT GTAAA 135

(2) INFORMATION FOR SEQ ID NO: 2201:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 135  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02512  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2201:  
 GATCCAGCTC AAGTGCCATC CTGCCAGTGG CCCCCAGACT GTGGGGTTGG GACGCCTGGC 60  
 CTCTGTGTCC TAGAAGGGAC CCTCCTGTGG TCTTTGTCTT GATTTTNCTT AATAAACGGT 120  
 GCTATCCCCG CCAAA 135

(2) INFORMATION FOR SEQ ID NO: 2202:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 133  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02513  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2202:  
 GATCACTACT GCTCTTGGAG TTCCTTCTCC TAAAGCTAAG GCCAGCCTCC ATCACAAATG 60  
 CCCATAAAAT CTGGCTCGTC TTTGATGAAC AATAAATATT TTTGAACAA ATAAATAACT 120  
 GCCCTGCATT AAA 133

(2) INFORMATION FOR SEQ ID NO: 2203:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 138  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02514  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2203:  
 GATCCTCCCG CTGGCTTCCA GACAGACCTG GGATTTTGGC AGTCATGCCG GGTGATGGTG 60  
 TTCCTGCGGA GACCCTCAGT TGTCTATTCT CTCCTAGCT TCCCTGCAAT AAAATCAAGC 120  
 TGCTTTTGTT GGAATAAA 138

(2) INFORMATION FOR SEQ ID NO: 2204:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 130  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02515  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2204:

GATCATTTCA CCTGATGTTT TTAAAGCATC CTAAGTACAG TAGAGTAGAA AACTNATTTTC 60  
 TTTGTTAATT GTACACTGAA TAATGCCTTT AAAAAATCAA AATAAAATTA ACAAATAATG 120  
 GTGAATGAAA 130

## (2) INFORMATION FOR SEQ ID NO: 2205:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 176
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02516

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2205:

GATCTCCTAT GTTACCAATG TGTATCGTCT CCTTCTCCCT AAAGTGTACT TAATCTTTGC 60  
 TTTCTTTGCA CAATGTCTTT GGTGCAAGT CATAAGCCTG AGGCAAATAA AATTCCAGTA 120  
 ATTTGGAAGA ATGTGGTGTT GGTGCTTTCC TAATAAAGAA ATAATTTAGC TTGAAA 176

## (2) INFORMATION FOR SEQ ID NO: 2206:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 130
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02517

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2206:

GATCATGTTA TGAATTTGTA ACATTCACAC AACACCTCAC TTTTNAATCT ATAAAAGAAT 60  
 TGCACGTATG ANAAACCTAT ATTTNAATAC TGCTGAAACA GACATGAAAT AAAGAATTAA 120  
 AAGAATGAAA 130

## (2) INFORMATION FOR SEQ ID NO: 2207:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 128
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02518

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2207:

GATCTAGCTT CTGGCTCTGT GTGTTTATTG ACCAGTGGTG TGCCTTGAGA AACCAGAACT 60  
 CTCTGAATTT CAGTTTTGTC TCTNTNTAAA TGAAGAAGGT TGTAATAAAA AAAATCTCAA 120  
 GTTTCAAA 128

## (2) INFORMATION FOR SEQ ID NO: 2208:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 349
- (B) TYPE: nucleic acid

- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS02519
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2208:

```
GATCCGTCAT GGNCAACGAG AAGCACAGCA AGAACATCAC CCAGCGCGGC ATACGTCGCC 60
AAGACCTCGA GAAATGCCCC CGAAGAGAAG GCGTCTGTAG GCCCTGGTTA TTGGCTCTCT 120
TCACTTTTGT NGTCTGTGGT TCTGCAATTT TCCAGATTAT TCAAAGTATC AGGATGGGCA 180
NNTGAAGTGA CTGACCTTAA NTGTTTCCAT TCTNCTNTGA ATTTAACTTA ACTCATTCCT 240
GATGTTTGAN CCCTGGTTNA ACAATTCAGT AAANATCTGC TAGAATNCTT NCTATCATNT 300
TCATGTGCAT TCAAGNTTCT CATNGCATCC ANGTTCTAGN CAACACAGN 349
```

(2) INFORMATION FOR SEQ ID NO: 2209:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 127
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS02520
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2209:

```
GATCACCAGG CAGCGACCTC CGCNCACCCC AGCAGTCGCG AGCCTCGGCC CAGCCANAGG 60
AAGCGNTGCC GNCGGACCTG ACTGACTTCC CAGTGGAAGT GCCTTCTTNG GCTGGGACAG 120
CCNTTTN 127
```

(2) INFORMATION FOR SEQ ID NO: 2210:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 126
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS02521
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2210:

```
GATCTGGGCC ACTTCCCTCC TTCCAGTCAT GAGTAATCAT CAAGGAGCAA GTTGGAGTGT 60
TTCAGGTGTA TATTTTGTAG AACCCAAAAG ATTGGAGCCT TAACAATAAA CATCAGCACT 120
AAGAAA 126
```

(2) INFORMATION FOR SEQ ID NO: 2211:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 126
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS02522
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base



## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2211:

GATCTTTTCAT AAAGCAGAAT GGTACGTATC GGATTGTTTT AATGTTATAT ATTGGATTGT 60  
 ATTCGTTGTT ACAAACCAA TATTCTATGG AGAATGAAAA AAATAAAGGA CTAAATTAAC 120  
 TGGAAA 126

## (2) INFORMATION FOR SEQ ID NO: 2212:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 127
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02523

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2212:

GATCTCGCAA AGTTATTCTT CCACCATGGC CAACAACGAA GGACTTTTCT CCCTGGTGGC 60  
 GAGGAAGCTG AGCAGACCCC TGTGATGCCT GTNACCTCAA TNAAAGCAAT TCCTTGACC 120  
 TGTCAAA 127

## (2) INFORMATION FOR SEQ ID NO: 2213:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 125
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02524

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2213:

GATCAATGTA CTTTTTATAA ACTTGCCATA GATATCTCAG ATTTGAAACC TCAAGACAGA 60  
 TTTATTATTC TTAAATGCTG TATGATAATG AAGAAAAATA AAAATTTATT TCTTGCAAAG 120  
 TTAAG 125

## (2) INFORMATION FOR SEQ ID NO: 2214:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 121
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02525

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2214:

GATCAGTTTG GAGAGTAGGG GGCCACTCAT ATTCTGGGCT CCTGGAACCA ATCCCGTGAA 60  
 AGAATTATTT TTGTGTTTCT AAAACTATGG TTCCAATAA AAGTGACTCT CAGCGAGCAA 120  
 A 121

## (2) INFORMATION FOR SEQ ID NO: 2215:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 124
- (B) TYPE: nucleic acid

(C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02526  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2215:  
 GATCCCCGCA TGGTGTGGG GGTGCTGGTG TGTCTTGGTG CCTGGACTTG AGTCTCACCC 60  
 TACAGATGAG AGGTGGCTGA GGCACCAGGG CTAAGCAATT AAACCAGTTA AGTCTCCCAG 120  
 GAAA 124

(2) INFORMATION FOR SEQ ID NO: 2216:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 120  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02527  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2216:  
 GATCAAAAAG GGGTCTGAGG TTGCATCAGG GAGACAAC TG TAATGATATA AGCAATAGTT 60  
 GAGAACCTGA CAGCAAGTAA TAAGACAGGA AGAATAAAAC TAGAAGAAGT CAGAATGAAA 120

(2) INFORMATION FOR SEQ ID NO: 2217:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 120  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02528  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2217:  
 GATCTGAGTT CTGAGCAAGT CAGACTCCTT CCTTTTGGCC TCCAAAGCCA CAGATGTTGG 60  
 CCGGCCACC TGTTTAACTC TGTATTTATT TCCCAATAAA GAAGGGCTTC CAAAGGCAAA 120

(2) INFORMATION FOR SEQ ID NO: 2218:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 120  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02529  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2218:  
 GATCGGAACT GTAAAGCTAT AATCCCCAGA ATTAAAGTTT TTATTATTTT TTATACATTG 60  
 TAAACATAG ACGTTTATTT ATGTGATTAA NTTCTATTAA AATTTACATG CTAAANTAAA 120

(2) INFORMATION FOR SEQ ID NO: 2219:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 115  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02531

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2219:  
 GATCCAGTTT TTCTTGGGAG GTTGTATCTG GTCATAAGGT AAACATTCTA TATATTCTAT 60  
 GCCTGCTCTA GAATTGAAAG ACTTCAGCAG TATTAAAGCA TTTTTTAATC TTAAA 115

(2) INFORMATION FOR SEQ ID NO: 2220:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 122  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02532

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2220:  
 GATCTGTATT TGTATATGCT GATGCAATGA TAAAAATCAC TGTAATAGNT TCATTGTGTT 60  
 GTACTGGATG CAAAGCTAGA AAATATTGCA ATANNTGAGA CCGATGAAAG ACTTCTCTGA 120  
 AA 122

(2) INFORMATION FOR SEQ ID NO: 2221:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 110  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02534

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2221:  
 GATCTTGGGC AAGTTAATCT CTGGGAACTT TGGGTTTCTT ATCCTCAAAA AAGGCGATGG 60  
 AAGGNCTGGG NCNCGTGATT AAATAAAAGC AACGCAAGAA AAATGCCAAA 110

(2) INFORMATION FOR SEQ ID NO: 2222:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 109  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02535

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2222:  
 GATCGATGGT ACTTTTTTGAA AATGCTTTAT TGCAAAAAAG TGGCTAGGGT TTTACAAGGN 60

CTATGAAGAA ACATATTAAG GTTAATAAAG CTTTTTATTG AGTGTTAAA

109

(2) INFORMATION FOR SEQ ID NO: 2223:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02537

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2223:

GATCCTCCCT TAGAGCATTT GGAAGAGTGT GGCCCTGCCA ACACCTTGAC TTCAAAC TTC 60  
TGGCCTCCAT AACTATGAAA TAAATNCTTG TTGTTTTAAG CCAAA 105

(2) INFORMATION FOR SEQ ID NO: 2224:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 108
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02538

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2224:

GATCTGTCCA CTTCTGGTGT CAAAGATTTT ACTCATCTTC TTAGTACATT CTATGTATTT 60  
NATATGTATA ATTTTATACA ATTAAAAATA GATTTTNGTC TAGTGAAA 108

(2) INFORMATION FOR SEQ ID NO: 2225:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 102
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02540

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2225:

GATCTTATAT CATTACAGTA GCCTTTTTGT AGAATCCATC CTATTTTCCA CATGGATAAT 60  
CATGTCATGA AGAATAAAGA CAGTTTTACT TCTTTCCTTA AA 102

(2) INFORMATION FOR SEQ ID NO: 2226:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 100
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02542

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2226:  
 GATCCCAGGG GAGGGGTCTC TCCTCCCACC CCAAGNCATC AAGCCCTTCT CCCTGCACTC 60  
 AATAAACCTT CAATAAATAT TCTCATTGGT CAATCAGAAA 100

(2) INFORMATION FOR SEQ ID NO: 2227:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 97  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02543

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2227:

GATCTGCTGC TTCCAAGTTG TGTGACCTTG GCTAAGTCAC TTAACCTTTC TGATTGTCAT 60  
 TTCGCTTTTT AATAAAGTGG GTCTGGTGAA CAAGAAA 97

(2) INFORMATION FOR SEQ ID NO: 2228:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 97  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02544

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2228:

GATCCCACTG TATGGCTATA CGGTATTTTA TCAGTGCATC CACTGTCGGG TTTTCCCCT 60  
 TGTGGACTAT TATGAATAGT GGACGCTTGT GTGCAA 97

(2) INFORMATION FOR SEQ ID NO: 2229:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 94  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02545

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2229:

GATCAGGTGA GCTGTGTCCA GAAAACCAAC GAGAAGGAGT GGAAGGAGGA ATGAACGTTT 60  
 CATTCTCGTT AATAAAGGCA TTATCCTAAT TAA 94

(2) INFORMATION FOR SEQ ID NO: 2230:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 102  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02546

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2230:

GATCTAATCT ATTCCTGGGG CCATAACTCA TGGGAAAACA GAATTATCCC CTAGGACTCC 60  
 TTTCTAAGCC CCTAATAAAA TGTCTGAGGG TGTCTCATGA AA 102

## (2) INFORMATION FOR SEQ ID NO: 2231:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 93  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02547

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2231:

GATCATATAT TTGTGGCATA CAGTGTGATG TTTTGACATG NATATAATTT TGTATACAAT 60  
 GTGGAATGAT TAAAACAAGC TAATTAACAT AAA 93

## (2) INFORMATION FOR SEQ ID NO: 2232:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 92  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02548

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2232:

GATCTGCACT TCCTCCCCTT TCACCTACCT GTACACCTAA CCTGGCCTTA GACTGAGCTT 60  
 TATTTAAGAA TAAAATCGTG GTGGTGGTCA AA 92

## (2) INFORMATION FOR SEQ ID NO: 2233:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 91  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02549

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2233:

GATCAGTGGC TGCTGGGTGG CGGGTACCCT TNCTCAGATG CCTGGCAGGN CTGGNTGGCG 60  
 ATTCATAAAG ACCTCGTGTT GATTCCCCAA A 91

## (2) INFORMATION FOR SEQ ID NO: 2234:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 89  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

- (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02551
- (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2234:  
 GATCTAACCC CTTACCCATC TNTCTACTGC TGGACTGTGG AGGGTCACCA GGTGGAAC 60  
 ATGCTGGAAA TAAACAGCT GCAACCAA 89
- (2) INFORMATION FOR SEQ ID NO: 2235:
- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 88  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02552
- (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2235:  
 GATCTTTTGG AGAGAAACAA ATGAGGATTG TAAAGTTTGG GGACTTACCT CTGTAGCATT 60  
 GTGAAAATAA ACTTTGATTA AGCTGAAA 88
- (2) INFORMATION FOR SEQ ID NO: 2236:
- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 88  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02553
- (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2236:  
 GATCACCTCG GCGTCTGTTT TGTATGCTCT TTACCTATGG ACTAGTTTGT GGACGGCTAA 60  
 GAAATACAGC CTCAGCATTG ATTTGAAA 88
- (2) INFORMATION FOR SEQ ID NO: 2237:
- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 88  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02554
- (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2237:  
 GATCTTAAGG AGTGTAAATT GCAATCTAAT TTTATCCTCT TACTCTGTGT TGTAAACCA 60  
 TATACAATAA ACGGTGTTTA TGGAGAAA 88
- (2) INFORMATION FOR SEQ ID NO: 2238:
- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 96  
 (B) TYPE: nucleic acid

(C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02555  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2238:  
 GATCTGGCTG TGAGGCCCTC AGGGCAGGGA TACAAAGCGG GGAGAGGGTA CACAATGGGT 60  
 ATCTAATAAA TACTTAAGAG GTGGAATTTG TGGAAA 96

(2) INFORMATION FOR SEQ ID NO: 2239:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 86  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02556  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2239:  
 GATCCGGGGA CCAGGGGCTG ACCTCCATTC GTACCCCACT GCTTTGGAGN TGATGGGACT 60  
 ATCAATAAGA ACTCTGTTCA CGCAA 86

(2) INFORMATION FOR SEQ ID NO: 2240:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 90  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02557  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2240:  
 GATCAAACCA TTTNACCTGG AGTTTGGTAC TGGTTTTAAC TTCTCTNAAT CTGTATAAGA 60  
 AAAATGAAGA CAATTGAACT TTCAAACAA 90

(2) INFORMATION FOR SEQ ID NO: 2241:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 85  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02559  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2241:  
 GATCCAAGTT TTGCGGGGTC TAAAGCTGTG TGTGTTGAGG GGGATACTAA GTTTATGAAA 60  
 AAGAATAAAA AACACAACCA CGAAA 85

(2) INFORMATION FOR SEQ ID NO: 2242:

(i) SEQUENCE CHARACTERISTICS:



(A) LENGTH: 84  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02560  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2242:  
 GATCTCGCCA CTNTTCTCCA ACCTGGGCAA TAAAGCAAGA NCCTGTCTTC AAACAAGCAA 60  
 ATAAAAACTT CTTATCCTG CAAA 84

(2) INFORMATION FOR SEQ ID NO: 2243:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 80  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02562  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2243:  
 GATCCTGTTA GCTTTCTGAA TGTTCTGTGG TTGAATGTGT TTTTGCTTAA ATAAAGCTTT 60  
 TGGTATTTGT TTAAATTAAA 80

(2) INFORMATION FOR SEQ ID NO: 2244:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 79  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02563  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2244:  
 GATCCCAACC GTTTGGCACA GCTTTGGCCA CAGCCAGGCC CCTCTGGAAT TGTCTTATT 60  
 AAACCAGTTT CCCGAGAAA 79

(2) INFORMATION FOR SEQ ID NO: 2245:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 78  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02564  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2245:  
 GATCCGGGTC AATGCTTCGT TTTCTAAAGG ATGCTGCTGT TGAAGCTTTG AATTTTACAA 60  
 TAAACTTTTT GAAACAAA 78

## (2) INFORMATION FOR SEQ ID NO: 2246:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 76
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02565

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2246:

GATCTTGTTT TTCCATGAAT ACAGCATGTA TAATAAAAAT TTAAGAAAT AAATGTTATT 60  
CTACTTTATT AACAAA 76

## (2) INFORMATION FOR SEQ ID NO: 2247:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 74
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02567

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2247:

GATCTTCTGC CGGGCGTGCC CCAGAGGACA GTGGGTGGAG TGGTCCTACT TATTAAATGT 60  
CTCAGCCCCT CAAA 74

## (2) INFORMATION FOR SEQ ID NO: 2248:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 73
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02568

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2248:

GATCTCACCT TTGCAAAGTT GGATAGTCAA TTTGTTTTTA GAGGAAATAA AACACTTATT 60  
CTGTGATTTT AAA 73

## (2) INFORMATION FOR SEQ ID NO: 2249:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 73
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02569

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2249:

GATCTGGAGA GAAAAACATT CAAACCATTG CATCATACAA AAAAAAGGCT ATTAAAAATT 60

GGATTATAGC AAA

73

## (2) INFORMATION FOR SEQ ID NO: 2250:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 72
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02570

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2250:

GATCAGAGTA AGAATGTCTT AAGAAGAGGT TTGTAAGGTC TTCATAACAA AGTGGTGTTC 60  
GTTATTTACA AA 72

## (2) INFORMATION FOR SEQ ID NO: 2251:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 74
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02571

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2251:

GATCAAATCT GTACAGTTTC TATTGTTCCA GATTTTTTTTA AGTTTGTATT AAAAGCATGA 60  
TAATAAATAG TAAA 74

## (2) INFORMATION FOR SEQ ID NO: 2252:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 71
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02572

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2252:

GATCTTTTCA GTGTTTTTTC ACTTTAGCTA TGTGGATTAG CTAGAATGCA CACCAAAAAA 60  
ATACTTGAGC N 71

## (2) INFORMATION FOR SEQ ID NO: 2253:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 71
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02573

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2253:  
 GATCCAGGAG GGAGCCACCC CCAAGGACCC TGCCAGCCAC AGACCTCCAA TAAAGACAGC 60  
 ATGGAAACAA A 71

(2) INFORMATION FOR SEQ ID NO: 2254:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 71
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02574

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2254:  
 GATCTGATGT GAATTCAGAT TTCCAATCTT CTCCTAGCCA ACCATTTTCC TGGAATNAAA 60  
 AATTCAGTAA A 71

(2) INFORMATION FOR SEQ ID NO: 2255:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 69
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02575

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2255:  
 GATCCAGAAG TTCTAAATCC AGGATTTTAA TTAGTAACTC AAATAAAATG CCACACATT 60  
 TCATACAAA 69

(2) INFORMATION FOR SEQ ID NO: 2256:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 69
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02576

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2256:  
 GATCATAGTA GTGCCGCTGT TGAGTGATAA AGCAACTTGT CATTAAAGAT GTGTGTNCAG 60  
 ACATGGAAA 69

(2) INFORMATION FOR SEQ ID NO: 2257:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 69
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02577

- (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2257:  
 GATCCCAGCC CAAATNNGCC CATTACACA ATCAGGAGCN AAATAAATTA CTGTTGTCTT 60  
 AACACTAAA 69
- (2) INFORMATION FOR SEQ ID NO: 2258:
- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 68  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02578
- (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2258:  
 GATCTTCAGC TGTTTGCCCG TNCTTATTAC ATAAACTGAA AACAGGATAA AAACGGAGTG 60  
 CAATGAAA 68
- (2) INFORMATION FOR SEQ ID NO: 2259:
- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 63  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02580
- (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2259:  
 GATCTGTCAA AGATATGAAC ATGAAAGAAC AGCTTATTTT AATAAACCCA CTTTACATAC 60  
 AAA 63
- (2) INFORMATION FOR SEQ ID NO: 2260:
- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 63  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02581
- (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2260:  
 GATCAAAAAGT AAATGTTCTC TTTGCCATTT TAGATGGAAA AATAAAAAAA ATTA AAAAGT 60  
 AAA 63
- (2) INFORMATION FOR SEQ ID NO: 2261:
- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 86  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02582

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2261:

GATCTACATG AAGGAACTGT AGATGATGTA TTTTTCAT CTTTGTGTT AACTGATTG 60  
 CAATAAAAT GATACTGATG GTGAAA 86

## (2) INFORMATION FOR SEQ ID NO: 2262:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 60  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02583

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2262:

GATCCCTTTT TTATTTGTG GTTTTAAAT ATAGTATAAA AATCCTTTTA AAAAAACAAA 60

## (2) INFORMATION FOR SEQ ID NO: 2263:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 67  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02585

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2263:

GATCAAAACA GGATTCCATT GACCTAATTA TATTAAGCTA ATAACTAAT TTTTGAATT 60  
 TTTGAAA 67

## (2) INFORMATION FOR SEQ ID NO: 2264:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 58  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02586

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2264:

GATCAATATT TATTGACTTG TAGTAAGTGC CACCAATAAA GCAGTCTTTA CCATGAAA 58

## (2) INFORMATION FOR SEQ ID NO: 2265:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 55  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

- (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02588  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2265:  
 GATCAATAGA CTGTACTTAT TTTCCAATAA AATTTTCAAA CTTTGTACTG TTAAA 55
- (2) INFORMATION FOR SEQ ID NO: 2266:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 53  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02589  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2266:  
 GATCATTCTC AGTATCCACT GTCTATGTAC AATAAAGGAT GTTTATAAGC AAA 53
- (2) INFORMATION FOR SEQ ID NO: 2267:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 53  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02590  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2267:  
 GATCCATTNN TTTTGTGAAT GTGCTAAATA AAAAGTGTTA TNAATTGCTG AAA 53
- (2) INFORMATION FOR SEQ ID NO: 2268:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 52  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02591  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2268:  
 GATCCTGCAT CCCACTCCCT GGGAGCCAAT AAAGTGCATT TTCACAGGCA AA 52
- (2) INFORMATION FOR SEQ ID NO: 2269:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 50  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02592

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2269:  
 GATCACAAAG TCAAAAACCC ATAAGAAAAA TTGAAAAAGC TACAAGCAAA 50

(2) INFORMATION FOR SEQ ID NO: 2270:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 50  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02593  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2270:  
 GATCATATTT TCTATTAAAG TGGCTAACAC CTGGCTACTC TTA CTGTAAA 50

(2) INFORMATION FOR SEQ ID NO: 2271:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 290  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02612  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2271:  
 GATCTGTAAA TAAATCAGT GCACTGTGAA TCACACCCAG CCCCTTTCCC TGCTGTGTGG 60  
 ATTAGGTGTC AAGACACCTA GTTCTTTCTG GGGCCACCCG GCTGGCCTCA CTGCTTATAT 120  
 TAAGGCTCCT CCAACTCTC ATTTTCCTTT GGAAAACAAG ACTTTTTTCC CCATGGTTAC 180  
 CGCTGAGATA CTGGGGCTGT AGTAGTATAA AAGCTCACAG TTCCTTCTGA GTGCTGAAAA 240  
 GAGTGCATGA GTTGCTTCGA AATAAAAGGG TCAAGCATTC CTACCTGAAA 290

(2) INFORMATION FOR SEQ ID NO: 2272:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 556  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02627  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2272:  
 GATCTGTGCT TCCNACTCAC ATGTNAGGCC ACGCCATCCT CTTGCTGAAN CCCTATTGAT 60  
 GCTTTCTAAC AGGTTCTCGT GTCTCTCCCT GACCAGGCC TCTTACAGAC TGCAGAATTA 120  
 CCATCCACAG TGTACATTGG ATGAGAATGT GTCACCACCA TGCTTAGAAC CACTCCTATC 180  
 ACTGACAGGT CAATATCTGA GCTCCTTGGC ACAACACACA TGTCCAGGGA GTGGCCAGTA 240  
 ATTAGTTGTG CCTGGAGTAT TGAGAGCATC AGTGGCCGGG AACATCAGGC AAGATGTGAT 300  
 GTTTTAAAGA GCCTTGAATG CCATGCTAAG GACTTNGAAC TGCATTGCAC AGCCCATGGG 360  
 GAGCTCTGGA AGGTTTAAAA GCAGNGAAGA NCCTTGCCCT TGTCTAAATT CTGTAAGTCT 420  
 CAAGCACTTC TGCTTTCCTT CATAGNACTT TGTAATTAT TTCAATTGGC TTGGTTNATT 480



TTTTNCNNNA TTTTCCCCTT AAATTTCAN GTTTTGGGC GGGATTAAAT NNTGGCTTTT 540  
 TTGNTCNCNT TTAAAA 556

(2) INFORMATION FOR SEQ ID NO: 2273:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 527
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02628

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2273:

GATCTGAACA TCTGGCCCAA GTGAAGCATG GCATATAGTG CCCTTGGAAG AAAATTAGGC 60  
 CTCAAATGAC AGTAGCATTG AAGTGTTCG TGCAGAGTTG AGGGAAACCC CCAGCCACCC 120  
 TCCCGGAATC CGAGATAGGG TGGCACATCT GTCCTGACAG ACGAGGAGTG TAACTNAACC 180  
 AGGAATATTT CCTCCATTCC TGCTCTCCCA CTGCACACAG GGTGGTGGCA CATTATCCCT 240  
 CTGGGGGGTG GGGACGCCTG TTGTTTTGGC TCAATTTGGG TTTGTTGGTC ACATGGAGCT 300  
 CTTCCATTTT GTTTAGCTGA ATAATGAGTT GTTCCTAGAG GAGACAGCCT GTCTCTCCTT 360  
 GTTNCCNCA AAGCCCATGN CCTGNCGTGG TGGANCTGGG GCTTTTGGNT GGGGAGGGGN 420  
 CCCAACAATG GATNTTNTN CCTTNCCTCG AATTCCAACG GANTNNAATG TNCAAAGGCC 480  
 CTTTNGAAAC TTGGNGGGAA ANTAAATTNC TNTNCCCTNG NNGTGGN 527

(2) INFORMATION FOR SEQ ID NO: 2274:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 458
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02629

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2274:

GATCAGCAGC CAATATGGGT TTGTTTGGTT TTTTAAATTC TTAAAAACAN CCTNTAGAGG 60  
 AATAGAAACA AATTTTTATG AGCATAACCC TATATAAAGA CAAAATGAAT TTCTGACCTT 120  
 ACCATATATA CCATTAGGCC TTGCCATTGC TTTAATGTAG ACTCATAGTT GAANTTAGTG 180  
 CAGAAAGANC TCAGATGTAC TAGATTTTCA TTGTTTCATTG ATATGCTCAG TATGCTGCCA 240  
 CATAAGATGA ATTTAATNNN NNNCAGCCAA AGCAATATAC TCTTACATGA TTTCTAGGCC 300  
 CCATGACCCA GTGTCTAGAG ACATTAATTC TAACCAGTTG TTTTGCTTNT AAATGAGTGA 360  
 TTTCCATTTT GGGGAACAGG TTTCAAATGG ANTATATNTA CATGGGTAAA ATTCCCCTGT 420  
 GCTAGTGTAG GNCTTTCCTN GGGGAATGTT TTATGGN 458

(2) INFORMATION FOR SEQ ID NO: 2275:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 452
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02630

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2275:

```

GATCGACTAC AAGCCAGCCC CTANGCACCT GCTGCTACAT CATGAAGNTA NCTCCAGAGA 60
GCATCCCCAG TCTTGAGGNT CTCAATAGAA AAGTCCACAA CTTCCAGGCC AAGCCCCGAG 120
TGCCTACGTC TAAGCTGGGC CAGGCAGAGG GNCGAGATGC AGGCTCAGCA CCCTCCGGAG 180
GGGACCCGGC CTTCTGGGN NTNGCCGTNA NCACCCTGTG TGGCGAGGTG CCGCTCTACT 240
ACATCTAGGA CGNCTCCGGT GAGCAGGGTC AGTGGAAGCC CCAACGGGAA AGGAAACGCC 300
CCGGGCAAAG GGTCTTTTGC AGCTTTTGC GACGNGCAAG AAGCTGCTTT CTTCCACAA 360
CCGNAGGACC AAAACCCTTG GAGAAANTGN GNAGNTTGGN GGAGATGGAT TTGGGAGTTT 420
GGCAANAGGG TTGGACCCNA NGNGGGCCCC GN 452

```

## (2) INFORMATION FOR SEQ ID NO: 2276:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 451
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

```

(B) CLONE: HUMGS02631

```

## (ix) FEATURE:

```

(D) OTHER INFORMATION: "N"=unidentified base

```

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2276:

```

GATCTTGTTT ACTTTTGGAC ATCAAGCCCA TCACTGCCAG CCAGTNAAGA AGGATTCCAG 60
CCTATGCCCT CAATCACAAT AAGACCACCA GATGACCAAC ATCTTCCTAC TGCAAATACT 120
TGCATTTCTC GACTTTACGT CCCACTCTAT TCCTCTAAAC AGATTCTCAA ACAGAAATTG 180
TTACTCGCCA TTAAGACCAA GAATNTTGGC NNNGTGTAGA GTATAAAAAG TGTGTATTGC 240
TGTGTAATAT TACTAGCAA TTTTGTAGAT TTTTNTCCAT TTGTCTATAA AAGTTTATGG 300
AAGTTAATGC TGTACATCCC CCCTGGTGGT ACCTTAAAGA GATAAANTGC AGACATTCTT 360
TGCTGAGTTT ATAGCTTAAA AGGCCTAAGG GAGCACTAGC AANCATTTTG GGCTATATTT 420
GGGTTTGCTA GGTACCAAC TTTCTGGGG N 451

```

## (2) INFORMATION FOR SEQ ID NO: 2277:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 446
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

```

(B) CLONE: HUMGS02632

```

## (ix) FEATURE:

```

(D) OTHER INFORMATION: "N"=unidentified base

```

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2277:

```

GATCCAGCCA GGCATCTCGG CGCTTTGGCA CCATGAGTTC TATGTCTGGG GCCGACGACA 60
CTGTGTACAT GGAGTACCAC TCATCGCGGA NAAGGCGCCC AGCAAACATG TACACCCGCT 120
CTTCAAGCGC TTTAGGAAAT NATNCTTAGG CAGGGTACTT CGTTCAAGAC CGGCGCTTGG 180
CACCCTTGTT GGAAAGGGNT TTTCAGCATA ACATTTTCCT TCCACCTCTT TGACCTTCCC 240
TCCAGCGTTG GCCAAATTGT GCTGAGGAAG ATGCATCAAG NGNTTGGCTG TGCCTTCATA 300
GGTCATCTAG GGTTTTATAA AGGAGGAGGA GACAATATTT NTTCAAACCT TTTTGGGAGT 360
GGGGTCATTT TCTGTATATA AANAATGTTA ATATTTAAGG TGTAGTTTAT GTTACCGTTC 420
TGAATAAACA GATTNGGCCA TTNAAA 446

```

## (2) INFORMATION FOR SEQ ID NO: 2278:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 425
(B) TYPE: nucleic acid

```

- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS02633
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2278:

```
GATCCACACC TGACCCTGTT GGGTCGAGTT AGGNTGGGCG TTGGTCTGCA CTGTAGCACC 60
TNTGTTCTTT GAGTTCACAT CATGAATGTG GTGACTTNCC AGNTACCATA TCAGGCTTAA 120
CCTAGCACAT CCTATTTCTT TNCTTCTATG ATATCCAAAT TGGACTGACC TCACTTCAAA 180
GTTGCTGTCC CATTGTGTCA CCCTATCTTA TCTCGGGGAA ATTGCAGACT GATGGCCAGA 240
CCAACCTCTG TGAAATTCTT GCATAGAGCA AACCTGTGCT CATTTTTAAG TGGCATGGGA 300
GAGGCCCCCA GCCTAGTAAA GCCTAGTCTG TGTCTTCACA GTGCTGGTAG NATGNGTTTT 360
GTGTGTATAA ATATATGATA TAGGATTGAT AATATGTTNN CTAACGGCCA TATTATTGAA 420
GGGCN 425
```

(2) INFORMATION FOR SEQ ID NO: 2279:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 414
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS02634
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2279:

```
GATCTGCCTT AACTCCAAC TACATGTTTT GGTCACTATT ACAAAGTGC ATCCAGAAT 60
GATGCTGCAG AGGCTAGGGC TAGGACACAG ACCAGTGTTC CCATGTGGGA ATTCCCTCCC 120
AGTATTTCTT AGGAANNNTA TGTTTTTTGA ATCCATAATC CCTAGAAAAA TCAGTTGAGG 180
AAATGAGAAG TATTGTAATT ATNCTGTGAA TAGTAACACT TACCATTATG GAGACATCAC 240
TAGTTTGAAG GANTCCAAC TCAACAAATN TTAACGTACC GAGTTGAAGG NTACAAGANC 300
TGAGACAGGA GCATAGCAGA GGAGAAACGG TCACCATCTC ATTAGCCCTA TTTTTTGGNT 360
TGNTGTGATG CCATTACATC TGNAATAATC TGGGCCATNT CAGCTGCTAA TGGN 414
```

(2) INFORMATION FOR SEQ ID NO: 2280:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 293
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS02635
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2280:

```
GATCTCACCT TCCTTCGAAT TCGCTCCAAG AAAAATGAAA TTATGGTTGC ACCAGATAAA 60
GACTATTTCC TGATTGTAAT TCAGAATCCA ACCGAATAAG CCACTCTCTT GGCTCCCTGT 120
GTCATTCCCT AATTTAATGC CCCCCAAGAA TGTTAATGTC ANNNNNGTCA GTGGACTAGC 180
ACATGGCAGT CGCTTGGAAC CCACTCACAC CAATCCAGTG ACCGTGTGTG GGCTGGNGGC 240
TCTNTNTCCC NCNCCAACGG AACCCNGTG TGCACCAACC TTTNNCNCAG AGN 293
```

(2) INFORMATION FOR SEQ ID NO: 2281:

- (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 400  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02637  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2281:

```

GATCTGGCAG GGCACCACAG CGCCCCCTAC TGAACCATCA GCATGTCAGT GGCATTTAAA 60
GCCATGCAGC TGGAGGGGCC ACTGAGATTG TCTCTGAGTA TTAAGTGAAG GCAACAGAAA 120
AGAGCCATGG ATGGAGCCCT TGGGCTCTCT GGGAAATGGG AAATCAGCCA AAGGACTGAG 180
AAGGAGTTAC CTTAAGGTCA GAGAAAACCA AGAGAGTGTG GTGTTCTGGA AGCTGAGCTT 240
TCTTTATTCA ACCTCATTCC CTTCTCCAAA TAAGCCACTT GTGTAGTTGG GCCCCTCCAG 300
GGTTGAAGGC AAGAGGAGAA AGGCACAGCG TTTGGGAAAC AAGACTTTTC CTGCAATAGC 360
CTGGGGAAGG AATAAAANGG ATAGAGGTGT TTGGGGGAAA 400

```

(2) INFORMATION FOR SEQ ID NO: 2282:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 400  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02638  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2282:

```

GATCTGTCCA ACGCCTGCAG CGTGGATGTG GAGGCGGACT AATCAACNAG TGCTCTGTTA 60
TTATTTCTAC CCATCCCTTT TCTCCATGCT AATTTGCTTA GAACTTTAAC ATTGAATGGA 120
CAGCAAATGT CATGTTCTGT TTAATTATCA CTCCTTGACC ATTATGTAA TTTCTTTCCC 180
TAACAAGGTG ACGCATTGTT TTAAGTAACA ATGACCAACT CATCTACTCT TCTTCCAAAT 240
TGTGTAAATT GAANGGGTAA AATGTGGGAA AACGCTAAAT TTGAATGCTA AATTTGAACA 300
TTTCACACAA CCAATAATTT TGAAATGCTT CTTNGCAATA TTATNGCGGT TTCGGNACCA 360
GGTTAAAAAT NNCTTTCATT TTCAGNCAT TTTGGTCAAA 400

```

(2) INFORMATION FOR SEQ ID NO: 2283:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 386  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02639  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2283:

```

GATCGATAAT ATAATTTATA ATGAAATTGC TTTATCAGCT ATTAATGTTA ACTACATCAT 60
CTTCATATAG CNTTATAACT CATTTGTGCT ATTCCATTTT CCTCTGTTCC TTTTATTTTC 120
ACTTCCCTTG TAATGTTAGT CTCTTTGTAC TGATTTCTGA AGAGTTCATT TATGATTAAA 180
CATGTTAACA TTTTGTCTAG AATTGCAAAT ATGTTTTTCC TCATTCATT TACTATGGTG 240
TTTTATTTTT GGGTTATACA GAAGTNGTAT ATTGAAATAT AATCTNGTNC TGTTTTATGA 300
CTTTGGAGTT TTGTGGTTTT TTNAAACCAN GTTTACAGTG GNATCCNTNN ATTNNGGTATT 360
GCCGTCNTAN TNCCNGCAGT TAGGTN 386

```

## (2) INFORMATION FOR SEQ ID NO: 2284:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 384
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02640

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2284:

```

GATCTNNTCA AACAGCAAAC GCCACAGAN GGCCAGAGG NGGTGGTAAT CAGGGTGTGT 60
GGGTGNTTTT AGGGTTCTTT AGTGTGTGTT CTTTCACCCA GGCGGTGGTG GTCCCAGCCA 120
GTTTGGTGCT GACGGTGAGA GGAAATNAGA ATCTGTTTGC AAATTGTCCA ACCCAGCCCC 180
TCAACATGAG GGGCTTCCAT TTTNTGTGTT TTGTAAGGGA ACTGTTTCCT TCATGCCGCC 240
ATGTTCTCTG TATTAGTTCT GATTTCTTTT TAACAAATGT TATCATGATT ANGAAAATTT 300
CCAGCACTTT AATGGCCAAT TAACTGAGAA TGTAAGAAAA TTGATGCTGT ACAAGGCAAA 360
TAAAGCTGTT TATTAACCTT GAAA 384

```

## (2) INFORMATION FOR SEQ ID NO: 2285:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 383
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02641

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2285:

```

GATCTTTTCT ATAATATCCT ACTACTTTGG TTTTCCTAGC TCCATACCAC ACACCTAAAC 60
CTGTATTATG AATTACATAT TACAAAGTCA TAAATNTGCC ATATGGATAT ACAGTACATT 120
CTAGTTGGAA TCGTTTACTC TGCTAGAATT TAGGTGTGAG ATTTTTTGTT TCCCAGGTAT 180
AGCAGGCTTA TGTTTGGTGG CATTAAATTG GTTTCTTTAA AATGCTTTGG TGGCACTTTT 240
GTAAACAGAT TGCTTCTAGA TTGTTACAAA CCAAGCCTAA GACACATCTG TGAATACTTA 300
GGATTTGTAG CTTAATCACA TTCTAGACTT GTGAGTTGAA TGACAAAGCA GTTGACCAA 360
AAANTTTATG GGCATTTAAA GGN 383

```

## (2) INFORMATION FOR SEQ ID NO: 2286:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 424
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02642

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2286:

```

GATCTAAAAT ACCTGGTGGC TTTTNACAAA AAGCAGATTT TTTTCATGTA CTGTNATGTC 60
TGATGCAATG CATCCTAGAA CAACTGGCC ATTTGCNAGT TACTCTAAA GACTAAACAT 120
AGTCTTGGTG TGTGTGGTCT TACTCATCTN CTAGTACCTT TAAGGACAAA TCCTAAGGAC 180
TTGGACACTT GCAATAAAGA AATTTTATTT TANACCCAAG TCTCCCTGGA TTGATAATAT 240

```

ATACACATTT GTCAGCATTT CCGGTCGTGG TGAGAGGCAG CTGTTTGAGC TCCAATGTGT 300  
 GCAGCTTTGA ACTAGGGCTG GGGTTGTGGG TGCCTCTTCT GAAAGGTCTA ACCATTATTG 360  
 GATAACTGGC TTTTTTCTTC CTCTTTGGAA TGTACCATTA NAAATAATTT TTTGAACCAT 420  
 CAAA 424

(2) INFORMATION FOR SEQ ID NO: 2287:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 378
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02643

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2287:

GATCCGAAGA GGAAGGGCGG TCCGGGCTCC ACACTTAGCT TCGTGGGCAA ACGCAGAGGC 60  
 GGGAACAAAC TAGCCCTNAA GACGGGAATA GTAGCCAAGA AGCAGAAGNC GGAGGATGAG 120  
 GTATTAACAA GTAAAGGTGA CGCGTGGGCC AAGTNCNNGG CAGAAGTGAA AAAGTACAAA 180  
 GCTCACCAGT GCGGTGACGA TGATAAACT CGGCCCTGG TGAAATNACG CCCCTCCCCC 240  
 ACCTGCCCAT GGCCTGGGAC TCTCTGCGAT GTACATAACT ATTTAATGCA GCGGCANGTC 300  
 GACAGCTTTC CCTGAGAGGA CTTAAAAGCA GAAGGAAACC GAGATGCTTC CCGNAAGCCG 360  
 TGGACGATTC TCCAAGGN 378

(2) INFORMATION FOR SEQ ID NO: 2288:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 370
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02644

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2288:

GATCTTCTTG ACTATGCCAG TTGTAGTACC AGCTTCTGTA TCTGCACTGA ATTCTGNCTC 60  
 AGTAATATGC CTTTGTTTTAA AATTTAAATA TTTTTCATT TTTTAACTT AGAAAATAAT 120  
 TATAATGAAN NNNNTAAGTA TCTCATTTTA GGATTCTGAT TTACATAGGT ATCACTGTAA 180  
 CTTGTGCTGT TTGCATAGGT ATACTCTATC TTGTGCTATC TGCATAAAAT ATCCAAGTAA 240  
 ACACATTGTG ATTTTACATC CGTGCATAGA AAAAAAATC ATCTGAACTC AAATCAATCT 300  
 GTTGATACTG ACTAGATTGG TGACGTGTTT ATGTGTACCA CTAGTGATAA TGCACGGTCC 360  
 TGTACAAGCN 370

(2) INFORMATION FOR SEQ ID NO: 2289:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 370
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02645

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2289:

GATCACAGGA ACAGCAGGTG ACAGGCCTAG CTATAGTTAG GAATACACAA GCCGTAAAT 60  
 CGAGTCCTTA CAGCCATACC ACAAGGTACG TCCANNTGGA CTACAAGAAG AGCTTCCTTT 120  
 AAAGTTCCTA TTTCAGCATA AAGAGGCTGT CCTTTTTTTT NAGGAATAGT TTGGACCTTG 180  
 TGCCTCCTGT GGGAGGCTGA GGAAGTCAAG AGGAGAGCTA GCAGATATGC CTGTTCACCC 240  
 CTCTCTGGTA CTTGTGGCTT GCTAGTATGT TTTNATGATA ATCTCGGGCA TTGTTTGCAT 300  
 TTGTGTTTAT TAATAGGGTT TTTGTTTTTT GTTGTTTCCT NTTTTNACAG TAANGGCTGA 360  
 ATTACATAAA 370

(2) INFORMATION FOR SEQ ID NO: 2290:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 367  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02646

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2290:

GATCTGAAAG GAATGCTAGA AGTGTTTAGA GAGCTGACAG ATGTCCGACG CTAAGGGGGG 60  
 CATGCNACAG GGGGAATGGC TCGCTTCAGT GCCCTGCTGC TCAAAGCTCT AGGGNAGAAT 120  
 GCAGTCGGGT AGNCTGTGGG GCTCTAACC CACAGCAACC TCTAGGGATG ACGTCACTAA 180  
 AAACCGATGA AGCCTCCATA ACATTGGTTC CTTACTGACG CTGAGGAGCA NGGCAATCTT 240  
 CACACCTTAA CCAATGCTAT TCATGTAGGA TGACCAAGAA ATGAATGTTT CTTACTGAAA 300  
 TAATACATAT TTTTGGCATC TTTTGGTTAC CCATAGACTA ATTAAANCTA ATCCNNGGNT 360  
 TTATAAA 367

(2) INFORMATION FOR SEQ ID NO: 2291:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 359  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02648

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2291:

GATCCTGACA GAGCCCTGAA CAGATTATAT CACTCGGCTA GAGGCACTGC AAAGACGACT 60  
 TGGAACATA CAGTCAGGTT CAACTACTCA ATTTTCATGCT GGCATGAGAA GATAATCCTT 120  
 TGAAACATCA TTAATTGAAG TGATTTTAAA TAGATTTTCT TTTGTAAATC AATGGTTCTT 180  
 TTGTGCTTTN GNNNNNNCGA ATATTCAATG GGACCAATAT GAACACAGCT TATGATTGTA 240  
 TACAAATCCC TTGCCAGCAC ATGAAANCAA ACTGGANTTT GTATATATAA GCATTGTGTA 300  
 TGTATTCATG CACAATAATT ATNGANTTAC CTGTATATTT GTGGGAATGC TAATTTAAN 359

(2) INFORMATION FOR SEQ ID NO: 2292:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 357  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02650

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2292:

```
GATCTGTGGG TCCGGCTGNA GGAGAGTGAC ATAGTCCCCG AACTCCANNT TGCCTGTCCT 60
GGACAGGCAC ATCTCCACTG AACTGCGGCT CCNTCGCCGT GGGCATTCCC ACCACAGCCA 120
GATGGTGGCC AGCAGTGCCT GCCTGTNTCT CTGGACTCCT GTGTTCTGGG TGCTGGTGCT 180
GGCTTTCCAA ACAGAGACAC CGCTCCTGTA ACGACTGGAA GCACCAGGCT AAGNACCTNA 240
CCCCTCGNAC TTNGAAGGAA TGGGCATTNC NGTACTTCAA CATTCTGGGT CTAGGCCCTTG 300
TTGGGGCCAA TTCAAGAAGN GGCCTTGTTN TTNGAAAAA GTGGGCCNNG TTTTNAN 357
```

(2) INFORMATION FOR SEQ ID NO: 2293:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 355  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02651

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2293:

```
GATCCTTCTT TTTGGTTTTG GAAATATAAT CATTGTTAAT GTTTCCCTC CAAATAGAAT 60
ACTGTTTTAT CCATACAAAT CATAACAGCA TCTATCCCAT GCTAGGGTG GAAACTGATA 120
TTGGTATTAC TTGTGTTTTT CCTTAGTGTG TTTTATTTCC CAGTTTCATC TNCTTTTAAA 180
AATGAAAATA TGGTGCCTTC CCTCCCTCCA GGAAGACTGG CAAATATTNC CTTTATTFTA 240
CTGCTGCTGT GGAGTGATGA GATATGCACT TTA CTCTTTA AGATTCAGCA AAAAGCTTTT 300
CACTTCTCAG TATATCCAGA ATACATCATA TCTGGGACTT AGGAAAATTG GCCAN 355
```

(2) INFORMATION FOR SEQ ID NO: 2294:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 330  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02652

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2294:

```
GATCTTTTAC ACCACATCAC AGTGANACA CTGGGGAGAC GTGCTTTTTT GGNAACTCA 60
AAGGTGCTAG CTCCTGATT CAAAGAAATA TTTCTCATGT TTGTTCAATC TAGTTTATAT 120
TTNCATTTAA AATCCTTTAG GTTAAGTTTA AGCTTTTAA AAGTTAGTTT TGAGAATTGA 180
GACACAATAC TAATACTGTA GGAATTGGTG AGGCTTGACT TAAAACTTTC TTTGTACTGT 240
GATTTCTTTT TGGGTGTATT TTGCTAAGTG AACCTTGTTA AATNTTTNGT TAACTAAATN 300
TTTTCTTAA AATAAAGACT TTTTCACAAA 330
```

(2) INFORMATION FOR SEQ ID NO: 2295:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 352  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02653

(ix) FEATURE:



(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2295:

```
GATCCTATGG ATTTTCCCGG CTGGTTGCCA CTACTNTACA ACATTCANAG CCCACATCCA 60
TCTGTGCCAT TAAGCTTTTT TGAGACATGA GAGATGCCTC TTCCCTGCTG TATGACATGC 120
ATTTGGGAAG TTGGAAAGAA ATGACAAAAT CAGGGAGAAA ACATCCAAGC TTCTTACCTG 180
TAGATAGAAT CAGCCCTCAC TTGGTGCTTA TTACCAGTTA TTCANGGACA ATAACAACAA 240
CAAAATTAGT AGACATNCAT GANGCACATN TTTAGGNCCA AAGGNTAGCA TCAACTTGTA 300
TTTNGAAGGG ACTGTAGTTT TCGGCATTTT ATGGCNATTT TTTATNAAAG TN 352
```

(2) INFORMATION FOR SEQ ID NO: 2296:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 351  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02654

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2296:

```
GATCGCAGCC GCTTCGCACG CCGCATCACC CAGGCCCAGG AGGAGCTGAG CCCCTGCCTC 60
ACCCCTGCTG CCCGGGCCAG AGCCTGGGCA CGCCTCAGGA ACCCACCTTT AGCCCCATC 120
CCTGCCCTCA CCCAGACCTT GNCTTCCTCC TCTGTCCCTT CGTCCCCAGT NCAGACCACG 180
CCCTTGAGCC AAGCTGTGGC CACACCTTCC CGCTCGTNTG CTGCTGCAGC GGCTGCCCTG 240
GACCTCAGTG GGAGGCGTGG CTGAGACCAA CTGGTTTGCC TATAATTTAT TAACTATTTA 300
TTTTTTCTAA GTGTGGGTTT ATATAAGGAA TAAAGGCTTT TGATTGTAA A 351
```

(2) INFORMATION FOR SEQ ID NO: 2297:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 357  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02656

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2297:

```
GATCCCCGTT CCTGACATCA CAGCAGCCTC CAACACAAGG CTCCAAGACC TAGGCTCATG 60
GACGAGATGG GAAGGCACAG GGAGAAGGGA TAACCCTACA CCCAGACCCC AGGCTGGACA 120
TGCTGACTGT CCTNTCGNGT NCAGCCNGTG GCCTTGCTT TTCTAGCCTA TTTACCTGCA 180
GGCTGAGCCA CTNTCTTCCC TTTCCCAGC ATCACTCCCC AAGGAAGAGC CAATGTTTTN 240
CACCNATAAT NCTNTCTGCC GANCCCTAGT TCCCTCTGCT CAGCCAAGGT TTGTTATCAG 300
GTTTTCAGGG GCCATGGGTT CACATTAAGG ATTTAAAAGG GTAGTAATTT GGGGAAA 357
```

(2) INFORMATION FOR SEQ ID NO: 2298:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 344  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02657

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2298:

```
GATCAAATTT NAGTGGCTTT GGACAGAAAA GAAGGCTCTG GATTTAAGCG GGTGGTCACC 60
TGTGAGACCA GGTCTACCTT GGGACTGTTA TTTAACTGAA TCAGTTATTT CCTTGAAATT 120
TCACAGTAGT GGGTGGGCCT GTTTTAAGGC TCTGACAGAT ACCACGAAAC ATGANGCNCG 180
NNGAACTACA AGACCCCGG GGTCTTTCTG AGTGCAAGGC TGAAATGGAC AAGGGCTCCT 240
CACGGGGGTG GAGGGAGCCG GAGCCTGCCT TGTGTTCCCT TTTGACTTG TGACATTTT 300
CAAACACATA ATTAAAAGGA CTTATGCTCT GCTGTCTCAG GAAA 344
```

(2) INFORMATION FOR SEQ ID NO: 2299:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 462  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02658

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2299:

```
GATCTGGTCC CTGAGAAACA TATTGTGATG AAGTGGAGGT TTAAATCTTG GCCAGAGGGA 60
CACTTTGCCA CCATCACCTT GACCTTCATC GACAAGAACG GAGAGACTNA GCTGTGCATG 120
GANGGTCGAG GCATCCCTGC TCCTGAGGAA GAGCGGACAC GACAGGGCTG GCAGCGGTAC 180
TACTTTGAGG GCATTAAACA GACCTTTGGC TATGGCGCAC GCTTATTTTA GGGCCAGCGG 240
CAGGGGACTC CAGCCTGCTG GACACTTCAN GTCCAGCTCT CTCCTGACTG GGGCTTNCGA 300
CTCACAGGAT TGCATCGNCC CAGCTGCTAA CTTNGGGCCG GGGGCCCNTC CCTTNCACAA 360
TATACCTTGG GTTTNTGCAT GTTTTCCTNN CTGGGTTGGG GTTCAGAGGG GCAATTTCNN 420
CTTTTAATGG TGTACATATN NCTANATANN CATAATTTTA AA 462
```

(2) INFORMATION FOR SEQ ID NO: 2300:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 341  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02659

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2300:

```
GATCAACTTC CCACAACTG AGGAATGAAT TCCACGAGCC TGTTCTGAAA ATNTGGACGT 60
AAGACAAACA CGTGCTCGTC CTTTAATGGA GTTCACCAGC ACACTTGTTA ACCAGTCCTG 120
TTTGCTTTTCG TCTTTTTTTG TGCCTAATAA AGTCAACTGA CCAAGTGACC ATGAAAAGGG 180
GCTGTCTGGG GCTCCTGTTT TTNAGCTGCT GTTCTTCAGC TCCGACCATG TTGCTGTGTG 240
ATTATCTCAA TTGGNTTTAA TTGAGGCAGA AACTGAAGCT CTACCAATGA ACTGTTAGAA 300
ACAAGACACA CTNTNGTATT AAAATTGCTT GCAGTAACAA A 341
```

(2) INFORMATION FOR SEQ ID NO: 2301:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 339  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02660

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2301:

```
GATCNGTGGC AAAACCAAGT GTGGTCTTTC AGCTTCAGTG TGTTAGCATC CCAGCACCTG 60
GGATGGGGTT TGTGGGCAAG TTGATTTTGC CACACTGTAG GGCCCAGGTN NNCCCATTGC 120
CACCGTGAAG CCAAATNCTA GCCCAAGTCT GGTAGAGCAG TCGGGCAGCT AGTTTTCCGG 180
GGAGGATGAT GTGGTGGGAC AGAGGACCTC AGTGGCCTAT TACGGAGCCC TCTTCCCAGA 240
CTAAATTCAT AGCCGAGAGC TCGGGGGGAT GGTAGAGTTA AAATTTAAAA TAATTTTCTA 300
AATTCTGTAT TTGGATATTA GTGTTTAAGT GGTAATTTN 339
```

(2) INFORMATION FOR SEQ ID NO: 2302:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 441  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02661

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2302:

```
GATCCAGGGG CTGCCTCTGG CCTCTTAGGG AGCAGAGAGC AGAACTCCGC AGCCCAGCCC 60
AGAGGAGTGT CACCTCCCAC CTTTGAGAGAG GAATCCTTCC CTCCCCTGGA CAAAGTTGCT 120
GACAAGCCCC TGAAGTGGCC TCTCCATATT CCAGCTGAGC CTGAATCTGA CTCTTGAGGG 180
TTGGGGCTGC ACTTATTTAT TCGGGGGAGA CAGCTCTCTC TCCCACCTNC TCCCAGATG 240
GGAGGAGAGC CTGAGGCCCA AGCAGGACCC GGGGGTTCCA GCCCCTAGCT GCTCTGGAGT 300
GGGGGAGGTT GGTGGACCAT GGGAGTNCCT GGTGCTGCCC CTNAAGGTGG GACCCAGGCG 360
TTNTCAAGCT GTACCCTTTT NCCGATGGAA TTTGTGTTTT TGAANATNNG TGTCTNNTAC 420
TANTTTNTTT AAATAAAAAA N 441
```

(2) INFORMATION FOR SEQ ID NO: 2303:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 336  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02662

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2303:

```
GATCATGGCA TCCAAGACCA GAGTCTCAGA ACTCATTAAG AAACAGTTTA CTTGGAATGG 60
AGAATACCCA TCTGTAATAC AGGTCCTGTC ATTTCAATCA TCTCAAATTA TTTTGAATTC 120
TTCCCAAATG GCTGCTGGAT TTAGGTGGTA ATAGGGGCTG TGGGCCATAA ATCTGAAGCC 180
TTGAGGAACC TTGGGTCTGG AGAGCCATGA AGAGGGAAGG AAAAGAGGGC AAGTCCTGAA 240
CCTAACCAAT GACCTGATGG ATTGCTCGAC CAAGNCACAG AAGTGAAGTC TGTGTCTGTG 300
CACTTTCCAC AGACTGGNGT TTTTGGTNCT GAATAN 336
```

(2) INFORMATION FOR SEQ ID NO: 2304:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 363  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single

- (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02663  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2304:

```
GATCAAGTNA CTTCTGCCCA CCTGGACACA ACACCAAAAA GGCTTCTAAA NACGGGTGTN 60
AGTCTTTTNA GCAACCCGGT CCAGTACTGG GAGATACAGC CATCCACCTT CANATGTGTC 120
TACGTGCGCT CTGCCATTCA ACTCGGAAAC TATAAGTAAT TCTNAAGAAA GCCCTCATT 180
TTATAACCTG GCAAAATCTT GTTAATGTCA TTGCTAAAAA ATAAATAAAA GCTAGATACT 240
GGNAACCTAA CTGCAATGTG GATGTTTTAC CCACATGGCT TTATTATGCA TAANGCCAAT 300
ATTTCTGTGTT TTAAGTAATN GCCTTCAATT MNNAAGNTAA TTTTGGCCTG NCCCANAAAT 360
AAA 363
```

(2) INFORMATION FOR SEQ ID NO: 2305:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 232  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02664  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2305:

```
GATCAGAGTT CCTCCTACTT ACAACCCAGG GTGTGAACAT GTNCTCCATT TTCAAGCTGG 60
AAGAAGTGAG CAGTGTTGGA GTGAGGGCTG TAAGGCAGGC CCATTCAGAG CTATGGTGCT 120
TGCTGGTGNC TGCCACCTTC AAGTTCTGGA CCTGGGCATG ACATCCTTTN TTTTAATGAT 180
GCCATGGCAA CTTAGAGATT GCATTTTTAT TAAAGCATTT CCTACCAGCA AA 232
```

(2) INFORMATION FOR SEQ ID NO: 2306:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 330  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02665  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2306:

```
GATCTTAAGT ATAATTACAA GGAAGAAGTG AAGAAGAATA TTCTCTTAGA AGAGAAGGTA 60
AAAAAACTTT CAGAACAATT GGGAGTTGAA TTAAGTAGCC CTGTTGCTGC TTCTGAAGAG 120
TTTGAAGATG AAGAAGAAAG NNCTGTTAAT TTCCCCATTT ACTAAAGGTC ACCTATAAAC 180
TTTGTTTTAT TTAAGTATTT ATTAAGTTTA TAAGTTAAAT ATACTTGGA ATAAGCAGTT 240
CTCCGAAGTG TAGTATTTCC TTCTCACTAC CTTGGTACCT TTATACTTAG ATTGGAATTC 300
TTAATAAATA GAATTATATG AAATTTTCAN 330
```

(2) INFORMATION FOR SEQ ID NO: 2307:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 328  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02666

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2307:

GATCGACTTA CCAACATGA GACAATTCAT ACTGGTGTGA ACCACANAAA TGCAAAGAAT 60  
 GTGGTAAGGC CTTTAGTCAT TGCTATCAAC TTAGTCAACA TCAAAGATTT CACCATGGTG 120  
 AGAGACTCTT AATGTAATGA GAGGGAAGC CTTTAGCCAT GGAACATTTT TACTGTTGTC 180  
 ACTATTATNA TGCTATAGTG AAGATTAAAC TAGTTAATAT AGAATATAAA TACTTGGA 240  
 GGCATCTGGC ACATCGTATT TGCTTACTAA ATACATTATT TTTATGATAA TTGTTAGAAT 300  
 TACTAAAAAT AAATCTTATA GAAGGAAA 328

## (2) INFORMATION FOR SEQ ID NO: 2308:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 327  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02667

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2308:

GATCTCAGGT ATCAGACCAC TGAGCAACCC ACCGCCAGNC TGCAGGCTTT CAGAGGCCCA 60  
 CCTGGGCCCA GCGTGGCCTG CCCCAGGGTG GGCTCCAGC GCAACTGCAG GCATCCTCTA 120  
 GTGGGGCCTC TGGTAACCCT AGCAGATGGT GGTGACCCCT CTGAGATGAG GAAGCTGGTG 180  
 ACCTNNGACT GAGCAGCAGC CTATGGGCTC CGGGTCAAGT GCTATTCCCA GCGGATGCCC 240  
 TTCCCTTGC GNCAGTCCCT CCTTTNCTGA GTGTCCAGGC GCNANTGNAA AACAGNAACC 300  
 CTAGGGTCTG GAAACTACTT TTTTTTN 327

## (2) INFORMATION FOR SEQ ID NO: 2309:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 326  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02668

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2309:

GATCCAGTTG TTATAGTGAA CTCATGGTAA TGGTTTGTGA GAACAATAGA GATTTTNATT 60  
 TCTATGTAGA TGAGTTGGTA TGAGAATATA TGGAATTTTT AAGGGACTGT TTAAATCTTT 120  
 GATTTGTAGA CTATTAAATA TACCGTATGC ATAAAGTAAG CCTTTAGCTC TAAGGTAAAG 180  
 ACGACACGTT TTCGGTTTGT GACTACAAAT AGGTTAAAAA TAGATTTTAA TTTTATTAAA 240  
 AATATAATTT AATGCAGGTT GTTTGAAGCA TCTGTCTTCA TATGATGGCA TTAGAACACC 300  
 TTGGTATAAT AAAAAGTTAC CGTAAA 326

## (2) INFORMATION FOR SEQ ID NO: 2310:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 322  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS02669
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2310:

```
GATCAAGAAG GAGCTAGAGA CCATTTCAAA GAAAAAAAAAT GCTTTATAGA GTTTTAAGTA 60
TGACTTAGAT GGGTCCAGGC AAATAAACTA AAAAGAAGTG AAGGCAACAT GTATCGTCTG 120
GCAGAACTAA ATCTTGAGT GGGGTGAGGG ATGAAAAGACT ACATATTGGG TACAGTGTAC 180
ACTGCTCGGG TGATGGGTGC GCTAAAGTCG CAGAAATCAC TAAAGAACTC ATCCATGTAA 240
CCAAACACCA CCTGTACCCC AAAAACGAAA TAAAAAACA AAACCTTGGG GCCCATTCCT 300
CCTAGGAATG GACTACTGTA AA 322
```

(2) INFORMATION FOR SEQ ID NO: 2311:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 321
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS02670
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2311:

```
GATCTAAATT ACCTTGGGTT TCGCATATGT CTATGAAATN CTGTGATAAN GTTTTTCAAT 60
ACATTGN TTC ACTGGCGTCT GTTTTCANTT TATACTTTTA ATAATCATC ACTGGTGGTA 120
CTTTATCTTG AAAAGTAATA TTTTNNATAT TTTANCATTG GACAGTGTTA GCCAGTTGTA 180
ATGATGTATC AGANGTAAAG AAAAACCCAT TAAAGTTATA GCTAATAGAT GCTGTTGGGG 240
GTTAAATTAA TAGTAAANTA ATCCAATATA GCACTNTNNA TGATTTNTTA TATAAANGTC 300
AACTGGTACA TTTCATT CAG N 321
```

(2) INFORMATION FOR SEQ ID NO: 2312:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 319
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS02672
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2312:

```
GATCGAAGGG TTTT TAGAGA ATGNTTTTCA AAACCATGCC TGGTATTTTC AACCATAAAA 60
GAAGTTTCAG TTGTCCTTAA ATTTGTATAA CGGTTTAATT CTGTCTTGTT CATTTTGAGT 120
ATTTTTAAAA AATATGTCGT AGAATTCCTT CGAAAGGCCT TCAGACACAT GCTATGTTCT 180
GTCTTCCCAA ACCCAGTCTC CTCTCCATTT TAGCCCAGTG TTTTCTTTGA GGACCCCTTA 240
ATCTTGCTTT CTTTAGAATT TTTACCCAAT TGGATTGGAA TGCAGAGGTC TCCAAACTGA 300
TTAAATATTT GAAGGGAAA 319
```

(2) INFORMATION FOR SEQ ID NO: 2313:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 327
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02673

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2313:

```

GATCGACAAA ACTTTGAACG AGGCTGACTG TGCCACCGTC CCGCCAGCCA TTCGCTCCTA 60
CTGATGAGAC AAGATGTGGT GATGACAGAN TCAGCTTTTG TAATTATGTA TAATAGCTCA 120
TGCATGTTTC CATGTCATAA CTGTNTTCAT ACGCTTCTGC ACTCTGGGGA AGAAGGAGTA 180
CATTGAAGGG AGATTGGCAC CTAGTGGCTG GGAGCTTGCC AGGAACCCAG TGGCCAGGGA 240
GCGTGGCACT TACCNNGGT CCCTTGCTTC ATTCTTGTGA GATGATAAAA CTGGGCACAG 300
CTCTTAAATA AAATATAAAT GANCAAA 327

```

## (2) INFORMATION FOR SEQ ID NO: 2314:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 313  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02675

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2314:

```

GATCAACCAC ATGCACATCC TTAACACAGA ATCCGTCCTT TCATTTCAAC ATTATAGCAA 60
GCTATGATTT TNATATATAA ATATTATATA AATNANGTAT AANACATTAA AAGTTAACTA 120
TGTAAGATAT TATNTCTGAA ACAATTTAGC TATATCCACT ATGATTATAA ACTGTGTCTC 180
GACCTGTGTT ATNTACANAA GCTGCTTAAA AAAGCATTGA GTTAATTTTN TTAAATATCA 240
ACTAAAATAT CATAGTTCTG TGGNNGACAT TGTGTTATAA TGANATAACT GCAACTAGAG 300
AAANCTGTAT AAN 313

```

## (2) INFORMATION FOR SEQ ID NO: 2315:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 365  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02676

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2315:

```

GATCGAGGAC ATAAGGAACT AGTCACAGTG TTGCTGCAAC ATAGAGCTGA CATTAACTGT 60
NAGGACAATG AAGGCCAAAC AGCTCTACAT TATGCCTCTG CCTGTAAGTT TCTGGATATT 120
GTAGAGCTGC TGCTCCAGTC TGGTGCTGAC CCCACTCTCC GAGACCAGGA TGGCTGCCTG 180
CCAGAGGAGG TGACAGGCTG CAAAACAGTT TCTTTGGTGC TGCAGCGGCA CAAACTGGC 240
AAGGCTTAAT CAAAAGACTG GAAAAGTGA GTCTGTAATA GCATAAGGCT TCCATTATGA 300
AAGAAAATA CAGAAATAAT ACTTCTTTTC CACCCGTCTT TGGTATGTAT TGGCTTATAA 360
AATTN 365

```

## (2) INFORMATION FOR SEQ ID NO: 2316:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 308  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single

- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS02677
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2316:

```

GATCCTGGAG CTGGCTGGCA ACGCGTGCCT NACAACAAGA AGACCAGGAT AATTCCCCGC 60
CACCTGCAGC TCGCCATCCG CAACGACGAG GAGTTAAACA AGCTGCTGGG CAAAGTGACC 120
ATCGCTTAGG GCGGCGTCCT GCCCAACATC CAGGCCGTGC TGCTGCCCAA GAAGACGGAG 180
AGTCAGAAGA CGAAGAGCAA ATNACCCTGA CGCCGNCCTC AGGGAGCTGN CTNCGNCANA 240
TAAGGCCCTT TTNATGGTCG TCCCGCAATG CTTTGAATG TGCTGGNTGT CATGGAGGGC 300
CGGTGACN 308

```

## (2) INFORMATION FOR SEQ ID NO: 2317:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 306
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS02678
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2317:

```

GATCTAGATA ACTCATGACA TTTTATTTGA CCAACATAGC ACATGATGAG ATATCAAGGT 60
AATTAAAATA GCATGCTTGA AAAAAAATA CGTAATCTGT TTCACCTGTA ACTGTTTAAG 120
CCAATAAACT TTTCAAAATT TATGTAATGT GGGGCTTTTA TGTAGCACTT TACGTTTTC 180
TGCTGCTTAT TGTTTTATTC TACTGAAAAA AATGANNTTC AAGATTCTCA ACTTTNTTAA 240
TTTCAAAAAT NGTTTATGGT TTTGACTATA GGAATACAAA ANTTCTTATT TNGGGNGAAT 300
AAGAAA 306

```

## (2) INFORMATION FOR SEQ ID NO: 2318:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 305
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS02679
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2318:

```

GATCCCCTGG CTCCCAGCA CACATTCCTT TGAAATAAGG TTTCAATATA CATCTACATA 60
CTATATATAT ATTTGGCAAC TTGTATTTGT GTGTATGTAT ATATATATAT GTTTATGTAT 120
ATATGTGATT CTGATAAAAT AGACATTGCT ATTCTGTTTT TTATATGTAA AAACAAAACA 180
AGAAAAAATA GAGAATTCTA CATACTAAAT CTCTCTCCTT TTTTAATTTT AATATTTGTN 240
ATCATTTATT TATTGGTGCT ACTGTTTATC CGTAATAATT GTGGGGAAAA GATATTAACA 300
TCAAA 305

```

## (2) INFORMATION FOR SEQ ID NO: 2319:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 303
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single



- (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02680  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2319:

```
GATCGAAATC ACTATAATTT TAACCCTNGT GATTGGAATG AATATGGTTT GTGCTGGAAG 60
CTCCGAGGTG GAAGAGACTC GTGCAATGGA GATTCTGGAA GCCCTTTGTT GTGCGAGGGT 120
GTTTTCCGAG GGGTCACCTT CTTTGGCCTT GAAAATAAAT GCGGAGACCC TCGTGGGCCT 180
GGTGTCTATA TTCTTCTCTC AAAGAAACAC CTCAACTGGA TAATTATGAC TATCAAGGGA 240
GCAGTTTAAA TAACCGTTTC CTNTCATTTA CTGTGGCTTC TTAATCTTTT CACAAATAAA 300
ATN 303
```

(2) INFORMATION FOR SEQ ID NO: 2320:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 302  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02681

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2320:

```
GATCCCTGCT GAATCCACAG GCCAAAATAG TCAATGTAAC TGCAAATCTA ATTTCATCCT 60
CCTTTCCTGA GGCCAACTCA GGAAATNAAA GGACGATTCT AATTTCCACT GCGGTTACTT 120
TTGTGGATGT GTCTGCACCT GCAGAGGCAG GCTTCANAGC TCCACCAGCC ATCAATGCCA 180
GGCTGCCCTT TAACTTCTTC TTCCCGTTTG TTTGACAATG CTCAGATGCA TCAGTTCCTT 240
AATATACACG TGAAATTGA AAAGTGTACA TTCGGTGAGA TTAAATTTTA TATACAATA 300
AA 302
```

(2) INFORMATION FOR SEQ ID NO: 2321:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 301  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02682

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2321:

```
GATCCAATTA AAAAAAATTA AAACCAATTT AAAAAAAAAA AGANACAGG AGATTCCAGT 60
CTACTTGAGT TAGCATAATA CAGAAGTCCC CTCTACTTNA ACTTTTACAA AAAAGTAACC 120
TGANCTAATC TGATGTNAAC CAATGTATTN ATTTCTGTGG TTCTGTTTCC TTGTNCCAAT 180
TTGACAAAAC CCACTGTTCT TGTATTGTAT TGCCAGGGG GAGCTATCAC TGTACTTGTA 240
GAGTGGTGCT GCTTTAATTC ATAAATCACA ANTAAAAGCC AATTAGCTCT ATAACANAA 300
A 301
```

(2) INFORMATION FOR SEQ ID NO: 2322:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 345  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single

- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS02684
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2322:

```

GATCAAGCGG AAAGAGTTTA AGTGTCTAAC AAACCTTAAAG CTACTGTAGT ACCTAAAAAG 60
TCAGTGTGTG ACATAGCATA AAAACTCTGC AGAGAAGTAT TCCCAATAAG GAAATAGCAT 120
TGAAATGTTA AATACAATTN CTGAAAGTAA TGTTTTTTTN CTATCATCTG GTATACCATT 180
GCTTTATTTT NATAAATNAT TTCCTCATTG CCATTGGAAT AGATATCTCA GATTGTGTAG 240
ATATGCTATT TAAATAATTT ANCAGGAAAT ACTGCCTGTA GAGTTAGTAT TTCTATTTNN 300
ATATAANGTT TGCACACTGA ATTGAAGAAT TGTTGGTTTT TTCCN 345

```

## (2) INFORMATION FOR SEQ ID NO: 2323:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 299
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS02685
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2323:

```

GATCTTTTCT AATATGGTAT TACAATGAAA AGAATAAAGA GAAGATTTGA ATTTNCAGTT 60
TCATTTTCAA AAACCTATTTA CCAAAACAAA TGGAGAAGAA ACATCCAAAA GCACATTTCA 120
TTTCTCCAAA CTGTGTGTTT TAAATTATAG TTATAAATNG TAAGGTAATT TTAAATTGTC 180
CCTCGTATTA TTNCTCCACG CCTGTTTTAG TNTNNGGTCT CCTAAGCTTT TCTCTCATAG 240
CGTAGACCTA GGAAGGGGAT GGAAGATTG CCCAGTCCCC GATGGCTGCG CACACAGGN 299

```

## (2) INFORMATION FOR SEQ ID NO: 2324:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 297
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS02686
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2324:

```

GATCCCTCTG TACAGGCTGG ATGGAAGGGG CCCTCCACAC TTCCTGGGAG GTCAGAGACA 60
AACTGTTTCA GAGAGTCAGA TGGACTTCCC AAGACTTGTT GAGAGATGTG ACATGGTTCT 120
TGGATTTCCT CTGTAGCAGC CTCCTGGACT TCCTGAGGAC TCGACATTGT CCACAGATGT 180
ACTGGCCATT ACATGAAACA AGAAACCAAG CATCTTTGCT GTTGTTAATT ATTATATGTG 240
CCATTGTTAC AGGAGATTAT AGGCTAGTCT GTAATAAATT ATCTTATAGC AGCCAAA 297

```

## (2) INFORMATION FOR SEQ ID NO: 2325:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 297
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02687

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2325:

```
GATCAGCAGC CGAGAAAAGT ACATCAACAA TCAGCTTGAG AATTTGGTTC AAGAATATCG 60
TGCAGCTCAA GCCCAGCTGA GTGAGGCAAA GNAGCGATAC CAGCAGGGAA ATGGAGGNGT 120
GACGGAAAGA ACCAGACTCC TCTCTGAGGT TNNGGAAGAA TTAGAAAAGG TAAAACAAGA 180
AATGGAAGAA AAGGGCAGCA GCATGACTGA TGGTGCTCCT TTGGTGAAGA TTAANCNNNG 240
CTTNNCANAA CTGAAGCAAG AANCTGTAGN GATGGACATT AGANTTGGCA TTGTGGN 297
```

(2) INFORMATION FOR SEQ ID NO: 2326:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 297  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02688

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2326:

```
GATCCNACTT TAGAAGCCTA CTTTNTAACC AAGGAGCTCA ATTTTTTTTTT TAAAGCTTTA 60
CTAATCTACC ANAGCATTGT AGATATTTTTT TTTTAACATC TATTGTTTAA AATAGATNAT 120
TATAACGGGG CAGAGAACTT TTTTTCTCT GCAAGAATGT TACATATTGT ATAGATAAAT 180
NAGTGNCATT TCATACCATG TATATATAGA GATGTNCTAT AAGTGTGAGA AAGTATATNC 240
TTTAATAGAT ACTGTAATTA TAAGATATTT TAAATTAAAT ATTTTTTTGT AAATAAA 297
```

(2) INFORMATION FOR SEQ ID NO: 2327:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 324  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02689

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2327:

```
GATCCTATGT CTGTCTGTCC ACCACGAGAT GGGAGGAGGA GAAAAAGCGG TACGATGCCT 60
TCCTGACCTC ACCGGCCTCC CCAAGGGTGC CGGCACTCTG GGTGGACTCA CGGCTGCTGG 120
GCCCCACGTC AAAGGTCAAG TAAGACGTAG GTCAAGTCCT ACGTCGGGGC CCAGACATCC 180
TGGGGTCCTG GTCTGTNAGA CAGGCTGCCC TAGAGCCCCA CCCAGTCCGG GGGGGNTGGN 240
GAGCAGTTCC AAGACCACCN CACCNCTTTT TGTAAATNTT GTTCATTNTA ANTCAAATAC 300
AGCGTNTTTT TCANTTCTGG GAAA 324
```

(2) INFORMATION FOR SEQ ID NO: 2328:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 291  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02690

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2328:

```
GATCTGCAGG GGTCTGGGAG TCAGGCCCGG CCTATTGCTT GGGTCTCTCT CTATTTATAT 60
ATCTAAGTTC ACAGTGTTTC TTATTCCTCC TAAGCTTCTA GAGGCTCATG GCCCTGTAGT 120
TAGGCCTGGC TCATTCTGCA CCTTTCCAGG GAGGTGGAAG GACCCTGTGC CCTCCTTCCC 180
AATCTTCTTT TTCAGGCTCG CCAAGGCCTA GGACCTATGT TGTAATTTTA CTTTTTATTT 240
CTAAAGTTGT AGTGAAGCTC TCACCCATAA TAAAGGTTGT GAATGTTCAA A 291
```

(2) INFORMATION FOR SEQ ID NO: 2329:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 290  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02691

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2329:

```
GATCTAGAAT CTCTTTATGT TCTCCAGAGG AAGGTGGAAG AAACCATGGG CAGGAGTAGG 60
AATTGAGTGA TAAACAATTG GGCTAATGAA GAAACTTCT CTTATTGTTT AGTTCATCCA 120
GATTATAACT TCAATGGGAC ACTTTAGACC ATTAGACAAT TGACACTGGA TTAAACAAAT 180
TCACATAATG CCAAATACAC AATGTATTTA TAGCAACGTA TANTTTGCAA AGATGGNCTT 240
TANAAGATGC TGTGTAGCTA ANCTGAANTA ATTCATTTAC TTATTATTN 290
```

(2) INFORMATION FOR SEQ ID NO: 2330:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 231  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02692

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2330:

```
GATCACTCCG CCTTNTCTTG GGCTCCCGTA GCACACTATA ACATCTGCTG AAGTGTGCT 60
GTTGCACCAT ACTTTCTTGT ACATTTGTGT CTCCCTTCCC AACTAGACTG TAAGTGCTT 120
GCGGTCAGGG ACTGAATCTT GCGCGTTTAT GTATGCTCCA TGNNGGNCC ATCATCCTGC 180
TTGGNGCAAG TAGGCAGGNG CTCAATAAAT GTTTGTGCA TGNNGGNAA A 231
```

(2) INFORMATION FOR SEQ ID NO: 2331:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 285  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02693

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2331:

```
GATCGCTAC AAGCCAGCCC CTGGCACCTG CTGCTACATC ATGAAGATAG CTGCAGAGAG 60
CATCCCCAGT CTTGAGGCTC TCAATAGAAA AGNCCACAAC TTCCAGATNG AATGCTCTCT 120
```

GCAGGCCAAG CCCGCACTGC CTACGTCTAA GCTGGGCCAG GCAGAGGGGC GAGATGCAGG 180  
 CTCAGCACCC TCCGGAGGGG ACCCGGNCTT CCTGGGCATG GCCGTGAACA CCCTGTNTGG 240  
 CGAGGTGCCG CTCTACTACA TCTAGGACGN CTCCGGGTCA TGTGN 285

(2) INFORMATION FOR SEQ ID NO: 2332:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 285
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02694

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2332:

GATCTAGAGG TTCCANTGCT ATNCTCTCTT CTTGTCTGAG AGCCAGGACC CTGGGGGAAA 60  
 TAACGGGCAA AAAAGCACTT TNAAGACAGA TATAGTGGGA ATTNATAAAC GACTTGATAG 120  
 AAACAGAAAT GAACTGTTTT ATTTNATNCT CTGAGGACTC TGCTCATCAC CCANTAGTAC 180  
 CATTCTTTTT CTCAGAAATGG ATTCTTTCCC CTATCTATCT AATCATTAGA GATGTAGCTA 240  
 NGAAATTACA TGTATGCATA TGTNTAATAT GTATATGTNT ATGTN 285

(2) INFORMATION FOR SEQ ID NO: 2333:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 283
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02695

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2333:

GATCTTAAAG CTTTGAGCAC CTGCCATTTT GCCTTGCATC GTTTCCTCG TCATGCATTT 60  
 CCACATATCC ACAACACAG AACGACTTTA GACAAGCACA TGTTACACCT GTGTTGCCAC 120  
 AAGCAGTCAT TCTTGACGGC TCCAGTTTTT ATTTGACACT TGAGTTTAGT TTTCTCTTTT 180  
 ATAAACCCAG TGAACCTCTG CACTGGCATT TGGATGTGTG TTAATGCTAT TTGTTTGTG 240  
 TTAAAAGTAA AACCTTTCTC AGTTTGAAC TGTATTCTCT AAA 283

(2) INFORMATION FOR SEQ ID NO: 2334:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 283
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02696

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2334:

GATCTATTAA AAAGGTTAAG AGGCCAGGTT ACCCACCANT CCTTGCACTG TNCTGACACT 60  
 TTCCCCAGGA GGAAAACAAG TACAAAGGTT ACGGTGGAGG CATAAGTAGA AGAGATTGTN 120  
 AAGAAGGGTA ATTCATGTNT CTTTGCTCTT NCTGCTTTAT GCCTCANTTT GGTTTAAAAA 180  
 CTTCTNTACT GGCAAATGGT GGTATTCACT GTGGGATAGT GTCATAACTA ATTTGACAAT 240  
 TTATTAATGA TAAATAACA ATAAATGTCT AGCTTTTACA AAA 283

## (2) INFORMATION FOR SEQ ID NO: 2335:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 283
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02697

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2335:

```
GATCACAAAA AAATCAGTCT TTAAGCATTT GCTTGGTAAG GTTTCTTAAN ATNAGGTTTA 60
TAATACAACC ATCTGTAATG TATCTNTCGN TTGANCTTGT GGGCCATACA ATTCATTAAC 120
TAGATGNATA CATTGTGGAC AGCATCCTCA CTACCCCTCT CTACTCACTC ACAAAGAACC 180
ATGATACACT GGAATGTTTT TNTNTGGAAT CCTCTTTCTA CTCTTGATT AAAATTTTNC 240
CCCAC TTCAT GATTATATNC AAAATAAACA ACTACATCAT AAA 283
```

## (2) INFORMATION FOR SEQ ID NO: 2336:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 282
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02698

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2336:

```
GATCAGCTTG CAGAGTCTTG CTTTTAGGTT AGATACAAAC AAAGTAAATC ATAGTTGGTG 60
TAAATCCAGC AAAAAACAGC TGGCTTTGGA ATGGAGAACA CTACAATTCA AATTTGAAGT 120
ATATTCAGAA GAAAACTTTG GAATTAGCTT TACATTTGTT TGTAAATCTA AACAAATNTG 180
CAAAATTGGT CAAAATGTAA GTNTATNGCA TTTTAAAGA TTANTGGTTC CTTTTATGTG 240
CTGATTCTT TGTATTCTGT TCTCTGCATT CATCATTCAG GN 282
```

## (2) INFORMATION FOR SEQ ID NO: 2337:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 284
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02699

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2337:

```
GATCTGTACC ACACCTTCCG GCCAGCTGTC CTCCTGCTGA TGTTCCTCAG TGTCTACAAG 60
GCCTTTGTGA TGGAGACCTT CGTCCACCTC TGCTCGCTGG GCAGTTGGGC AGCTCTACTG 120
GCCCCAGCAG TGGTAACGGG GCTGCTGGCC CTCAGCACTT TGGCCCTGTA TGTCGCCGTT 180
GTCAATGTGC ACTCCTAGGC TTGGTGTCTC AGACATTTGA TGTACCTTTT CCCTGNCTCG 240
NTCCAGGTTT TTAGTGAAAGT AAACAGGTAT TTTGGAAAGT TAAA 284
```

## (2) INFORMATION FOR SEQ ID NO: 2338:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 280  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02700  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2338:  
 GATCAACGAC AGCCTCCAGT TTCCACTTNG TGAGAGAACA AAGGAACCGG GGCATGCTCA 60  
 NCTATGGCTG CAAGCCNTTC AAGTGAAGCT GGGCACTTAC CCCCTTNATT CCATTCTCCT 120  
 CAGGATAACA GATTAAAATT CCAGAAGTGT GCACCTGTNG TNTATTGAGG AGATTNTCGT 180  
 TNTGCATAAA GAGACCACTT GAGGCCCTGT AAGCAAAGAC TAATTNGGTC TNAGTCAAAA 240  
 TCTTGGAAT CTGATNAACT AACACACTCA AATGAACTN 280

(2) INFORMATION FOR SEQ ID NO: 2339:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 285  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02701  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2339:  
 GATCTGGAGC AGGAAGGCCT CGAGGCACAC AGGGGCTGCT GGCCGGCGAG TGGGCCCCAC 60  
 CCCTCTGGGA GCTGGGCAGC CTCTTCCAGG CCTTCGTGAA GAGGGAGAGC CAGGCTTATG 120  
 CGTAANTTCA TAGCTTCTNC TGGCCTGGGG TGGACCCAGG ACCCCTGGGG CCTGGGTGCC 180  
 CTGAGTGGTG GTAAAGTGA GCAATCCCTT NACGCTCCTT GNCCATGTTC TNAGCGGNCA 240  
 GNTTGGNTTT NNCCTTNAAT AAATNTGCTT TATTTNCTCT TCAA 285

(2) INFORMATION FOR SEQ ID NO: 2340:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 320  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02702  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2340:  
 GATCGTAAAC TTGTTGATAA AGAAGATATC GACACTAGCA GCAAAGNAGG CTGTGTCCAA 60  
 CAGGCTACTG GCTGGAGGAA AGGGACAGGC CTGGNATATG GCCATCCTGG ATTGGCTTCA 120  
 TCAGAGGAGG CTGAAGGCCG GATGAGGGGC CCCAGTGTG GAGCCTCAGG AAGAACCAGC 180  
 AAAAGACAGT CCAACGAGAC TTATCGAGAT GCTGTTCGAA GAGTCATGTT TNCTCGATAT 240  
 AAAGAAGTCG ATTAAGNAAG GNGNCAAGTT CCATGGGATA CAACCTACCT CTTGTTTTGT 300  
 TTGTCTCTCC TTTTCTTTN 320

(2) INFORMATION FOR SEQ ID NO: 2341:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 519  
 (B) TYPE: nucleic acid

(C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02703  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2341:

```

GATCTGAAAG GAGCAAGGAA CAGCAAGGAA TTATTTTCCA GAATGACACC CGCAGCAGAA 60
TGTTGGAGTG GAAATGATGG CTGGCTATGA AGAGGAGGTC AACGTGTGTG GTCTCCTCAG 120
TCTCTGTCAG AGGGGTGGGG AGGTGGGAAA CAGGAATCCT CTGCAAAGCC CAATCTGCAG 180
AGTCGAGACC CCTGGTGCTC TCTGCCCCGC TGCCTGGCAC TGGTCCTTTG CAGCCAGCCA 240
CCAACGGCCC CCTTGCCCTT NCAGAGGCAG AAGCCTNCGT CTNAACCTGC ACCTCTGACC 300
GTTTINAGCAC CNTTGGGTTN TTACCANGTC CTANAACCTCT GANATTTNTT NGTTCTAAAA 360
GGGGTTTCTA TTTCAACTTG NTGAGTTTGT NTTTTGGGNC CTTCCAATTT GGGNTACCTT 420
GNTATNTTTN ATGGTTTTAT AAATCCTTNA CTCTTGGNAN GTTTTAATTN TTTACAAAAT 480
CAGGGATAAC TTTNGTTTNA ANACTGGTTT GAAGGAATN 519

```

(2) INFORMATION FOR SEQ ID NO: 2342:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 272  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02704  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2342:

```

GATCCCAACT AATTTTACCG AACCTAAAAC CCACAAAGAG GTTGTGTTGTG TTATTGTTCA 60
ATCTTCAGTT GTAAGAGTAA TTCTCTATTT TNATATTGAA ACATAATTAC TTGATAGCTC 120
AGGGTCTACA TTTCAATCAA CTTTTTACAC CAAATTCTGC AGAGTGGTCA AAATGGAATA 180
TTGGGGGCTG TTGTAAACAG AGGCTTAATT TTATTAGAAG TAGCCAGTTA TTTATTAAAG 240
CATGATGTTA ATAAATAGG CATATTCTGA AA 272

```

(2) INFORMATION FOR SEQ ID NO: 2343:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 272  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02705  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2343:

```

GATCTGACAT GATTCCTTCC TGTTCTGAAC TGTGGGGTGT GCACATCTCT ACTTGAGTCA 60
GGTTTNAGTA GAGGCTTAGA GACAGTTAGG TGAGAACAAC CAAAATCTTA TCATGGTCTC 120
AGTCANNATC ATTAGGGGGA ACTCTAGCCA AATNGTTTAA CTTCTGCCTG TGGAAGTGGG 180
GATTGGGTGG GCAGGAAAAG GTGATATCCA TTCTTTCTGA TAACTAGATG GTGCTGAGAA 240
GCTTTTGAAT AAAAAGTTTG CTAAATGAGA AA 272

```

(2) INFORMATION FOR SEQ ID NO: 2344:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 273



- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS02706
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2344:

```
GATCTTTCCC AGGCCGCACC ATTTCTNTCA CTCACATGGA CCCAAGATAN AAGAATGGCC 60
AAACCCTCAC AACCCCTGAT GTTTGAAGAG TTCCAAGTTG AAGGGAAACA AAGAAGTGTT 120
TGATGGTGCC AGAGAGGGGC TGCTCTCCAG AAAGCTAAAA TTAAATTTCT TTTTTCCTCT 180
GAGTTCTGTA CTTCAACCAG CCTACAAGCT GGCCTNGCT AACAAATCAG AAATATGACA 240
ATTTAATGAT TAAAGACTGT GATTGCCACC AAA 273
```

(2) INFORMATION FOR SEQ ID NO: 2345:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 277
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS02707
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2345:

```
GATCCATGAA GCTGCCCTGC CCACGCCTCC CCTCCCTGTA GCAACACCTC TGGGTGTTTG 60
GAGTTTAGCT TTTGTGGGTT TGCTCTCCCT ATCCCATCTC CTGTACTACA CAGTTCATGG 120
CAGGGTGGGG AGNNGTGGGG TTGGTTCGGG TGGGTGAGGG TCTTTTTCCT CTGTGTGCGA 180
TGTTGTTATC TGACAGNTCT CCGTCCCTAC TGGCCTTTCT CCTCGTCTTC ATATTTGTAC 240
GGTACAAGCA ATAAAGACAC TCATTTTCTCAG CCAGAAA 277
```

(2) INFORMATION FOR SEQ ID NO: 2346:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 431
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS02708
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2346:

```
GATCTTNCTA GGAGGGAGAC ACTGGCCCCT CAAATCGTCC AGCGACCTTC CTCATCCACC 60
CCATCCNTCC CCANTTCATT GCACTTTNAT TAGCAGCGGA ACAAGGAGTC AGACATTTNA 120
AGATGGTGGC AGTAGAGGCT ATGGACAGGG CATGCCACGT GGGCTCATAT GGGGCTGGGA 180
GTAGTTGTTT TTCCTGGCAC TAACGTTGAG CCCCTGGAGG CACTGAAGTG CTTAGTGTAC 240
TTGGAGTATT GGGGTCTGAC CCCAAACACC TTCCAGCTCC TGTAACATAC TGGCCTGGAC 300
TGTTTTNTCT CGGCTCCCCA TGTNGTCCTG GTNCGGTTT TNTCCACCTA NGAAGTAAAA 360
CCTCTTCGAG GGCAAGGGAC CACACCCTGT AACTGTTCTG TGNCTTTTAA CAGGTTCTCN 420
CCATTAATGC N 431
```

(2) INFORMATION FOR SEQ ID NO: 2347:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 268

(B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02709  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2347:  
 GATCTTTTGT GTCTGGTTCC TTTCACGTTG AACGCTATTT TTAAGGTTTCG TGCCTGTTGT 60  
 AGACCACAGT CACACACTGC TGTAAGTCTTA CCCCATCCTC ATTCCCAGCT GCCTCCTCCT 120  
 ACTGTTTCCC TCTATCANN NGCCTCCTTG GCGCAGGTTT CCTGAGCTGT GGGATTCTGC 180  
 ACTGGTGCTT TGGATTCCCT GATATGTTCC TTCAAATCCA CTGAGNATTA AATAAACATC 240  
 GNTAAAAGAA TGACCTTCCC AAGGNAAA 268

(2) INFORMATION FOR SEQ ID NO: 2348:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 268  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02710  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2348:  
 GATCAGAAAC CAGTCTCCTT CCCCAGTAGTC TGGACTGGGT ATCCCCTCTT AAATNTTTC 60  
 AAAGCAACAC AAATTTAATT CCGTCACAGA ACTTGCCACT CTGTGCTGTG TCCTCTGTTT 120  
 CCTTGCCATC TTCCTCAATN AGCTGGAAGC CCATTGGCAG CAGGGACTGT TTCTTGTTCA 180  
 CAGCTGCACC TCAGTGCTAA GCATAGTGCC TGGTAGGTAA TAGACTCCTT AAGTATTTGT 240  
 TGAATTAATA AAGGATGNNT TTTTAA 268

(2) INFORMATION FOR SEQ ID NO: 2349:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 268  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02711  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2349:  
 GATCAGAAGC CATTNNATTT GGTAGGTGTG TCAGAAGGGA GAATGATGGN AGACGAACTG 60  
 CTGGAAGAGG TCAGAAGATA GCCATGCTAA AATGCAATTA TATCCTCATG TTTATCCCAA 120  
 ACTAATCTTG GACTTTTCCA CTCATTAGCT TTGTTNTGCC CTTGTTTCCC TTGAAGGTTT 180  
 AAGTTCAACC ATATTCTGTC AACTGTTTCA TTTTCAAGTGA ATCTTGTTATT TCTGGTTTCA 240  
 TATAACAAAC TGTTTCGCTTA AATCCAA 268

(2) INFORMATION FOR SEQ ID NO: 2350:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 398  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02712

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2350:

```

GATCCGAGAA CGCTCTAAGC CTGTCCACGA GCTCAATAGG GAAGCCTGTA ATGACTACAG 60
ACTTTGCGAA CGCTACGCCA TGGTTTATGG ATACAATNCT GCCTATAATC GCTACTTCAG 120
GAAGCGCCGA GGGGCCAAAT NAGACTGAGG GAAGAAAAAA AATCTCTTTT TTTCTGGAGG 180
CTGGCACCTG ATTTTGTATC CCCCTGTAGC AGCATTACTG AAATACATAG GCTTATATAC 240
AATGCTTCTT TCCTGTATAT TCTCTTGTCT GGCTGCACCC CTTTTTCCNG NCCCCAGATT 300
GNTAAGTAAT NGAAAGTGCA CTGCAGTGAG GGTCAAAGGN GAGGCAACAT ATTNTNNTTT 360
TCCATAATAA AACTTTCTTG GGGGNNATAC TTTTCAAA 398

```

## (2) INFORMATION FOR SEQ ID NO: 2351:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 381  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02713

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2351:

```

GATCTGCAAG CATTTGCTCT TGTTTCCACA TCACCTCTGG GATATTTTCAG CTGTTGTTTC 60
CAAAATGGCAA ATCATCAACT AAANGCACTT GTTTCAGTT TTGTTCTGCA CTCCCACGAC 120
TGAAGTTGTA GATTGAGCTG AATAACCATG GGAAGTGANC AAGCAAAGAC ACTCGATTGG 180
AGTCAGTTGA ATATTTGTAC CCTCAGTGGA GCCCTTCTGG TCTTTTCTTC CACTTCTGCA 240
GAATTTCCCTC TAGCAAATAC TTCTTTCTCC TTGCTTGCCT CCACCATGAT ATTTGAATAA 300
GAGATGGCCA GAGGATAACA CTTGTCTCTT AAAAATAAG CTAAAAAGGA CCTAGGAACC 360
TTCAATTTGA GCAGTTGGTT N 381

```

## (2) INFORMATION FOR SEQ ID NO: 2352:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 265  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02714

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2352:

```

GATCTGCCCC CCTTGGCCTC TCAAAGTGTT GGGATTGCAG GCGTGACACG TGCTCCTGGC 60
TTGAATTTTC TTATAATCCC ATGAAACCAT CATCAGAGTC ACAATAATNA ATTTATCTAA 120
TCTATCACCT TTGTATTAC CTGGAGCCTT TATAAAGTTT TTNTCTATGC AGACAACCAT 180
TGATTTACTC TGCTGTATAA TACTTTCCAT TTTCTAGAAT TTTCTGACTG ATGTAATAAA 240
GTGTTTCCTC TTATAATCCC TGAAA 265

```

## (2) INFORMATION FOR SEQ ID NO: 2353:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 265  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single

- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
- (B) CLONE: HUMGS02715
- (ix) FEATURE:
- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2353:

```
GATCGGGGGC TTGAACCCAG GTGGTCAGGC TCTGGAGCCC ACAATTGTNT TACCCACTAT 60
GCCCCTCTCT AGTCATGGTC CCCAAGAGGG GCTTGGAGAC CCACTTAGCA GGTGAAAGCA 120
ATGGCAGCCT TCCTTATTTG ATTATGCACC TAAGAATAAA TGGTATTTGG GCATGTATTC 180
CCAATATGTG TATATTTATT TATAAATATA TACAGATACT ATNATCTGTA TGTNAGTAAT 240
AAAGCTTAA TTATTCCATT TTAAA 265
```

(2) INFORMATION FOR SEQ ID NO: 2354:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 379
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02716

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2354:

```
GATCGGCGGA CGCCCATCAC CGTGGTGAAG CAAGGCTTTG AGCCTCCCTC CTTTGTGGGC 60
TGGTTCCTTG GCTGGGATGA TGATTACTGG TCTGTGGACC CCTTGGACAG GGCCATGGCT 120
GAGCTGGCTG CCTGAGGAGG GGCAGGGCCC ACCCATGTCA CCGGTCAGTG CCTTTTGGAA 180
CTGTCCTTCC CTCAAAGAGG CCTTAGAGCG AGCAGAGCAG CTCTGCTATG AGTGTGTGTG 240
TGTGTGTGTG TTGTTTCTTT TTTTNTTTN MNAGTNTCC AAAAAAGCC CTNAAAAAAT 300
TCAGGGNCCT TGAAAAATTN TNTAAATGC CAGNNTTTGG GGAAATNAAA CCCANTAAAA 360
ACNTTTTGAG GGGTGNAAA 379
```

(2) INFORMATION FOR SEQ ID NO: 2355:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 261
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02717

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2355:

```
GATCACAAAA CAATTCTAAA ACCTAACTGT TTTTACCATT GAAATTTAAA TTGTGATAAT 60
AGGTTTTTAAA TGTCTAGAAT GCAACTGATA GGCTTTTCTT GAACTGTTAG TTTTTTTGAA 120
GTAGTTTTTTT CATGTTTANN NNGTATTTGT AAAAAACAA AAAGCAAAAA AATTCCCAAA 180
ACCCAGATAA CAACCAGAGC AAAACTGTTG TGCCTTCTAT TTATCTTTGA TTTCAGTCTT 240
GGCAATTGTT TAAAAAANA N 261
```

(2) INFORMATION FOR SEQ ID NO: 2356:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 259
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02718

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2356:

```

GATCATTGGA GAGAGAATTG CACAGAAAGT CCTGAAGTTT AAAAACTTT ATGACCAGCT 60
TTGGCTCGGG AGAGTGGGGC TGCTTGTAGA ACTGGAAGTG AATAACTTTT TCAAGCAATA 120
TCAGTGAGTG GGTCCCATCG ACAGGGTTCC AGGACCTGGA ACACTTTAAC AGAAGGAAAT 180
GCCGAAGCAG CTTGCACAGT NGCTTGACAG ACTTCCAAGN NGGCTGATTC TGGCTTCAAG 240
ATGGAGCCTT GGAGTTGGN 259

```

## (2) INFORMATION FOR SEQ ID NO: 2357:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 296  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02719

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2357:

```

GATCTGGGAG TACACCAGGC AGCAGCTGCT CTCGNACGGA GATACCAAGC CATGATGTGC 60
CNNMNTTAGT GAACTGCTGC TGCTGTTCAG ACTTTTTTAA AAAAACTAT TTGGACTAAA 120
GAAACAGATT CTGAAATTTA TTGTGATAAT TTGTATTTCT TTTTCTTGC AATTTAATGC 180
CAAAAGTTTG CCATGTGCCT TAAACATATT ACTATATATT TNCCCCTTTA ATAAACACTT 240
TTNGTTAAAT TGTATTCTTC CTTTAATAAA ATATTTTAAG CAATTGTGGA AATAAA 296

```

## (2) INFORMATION FOR SEQ ID NO: 2358:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 254  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02721

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2358:

```

GATCAGAATA CATGATGGAT GAAATTCTTT ACATGTTTTA GCAGAAATNAA TTTGTTTAAT 60
ATAATAAAGT TTGCTACTTA TCTGTATGTA GGTTGCTAAA AANGATTTTC TTAACTCAGA 120
TTTTAAGCCA AATAACCATT TAACACTAGT ATTTGTTAAA TGGGTTATTT TNCTGTATTT 180
GTATGTTTCA CTATAATAAG GGAATTAAGG ATAATGTGCA TTGAGAATAT TTTGAAAANT 240
AATTGACTCA AATN 254

```

## (2) INFORMATION FOR SEQ ID NO: 2359:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 253  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02722

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2359:

```
GATCAGTTAT AAGTAGCAGG CCAAGTCAGG CCCTTATTTT CAAGAACTG AGGAATTTTC 60
TTTGTGTAGC TTTGCTCTTT GGTAGAAAAG GCTAGGTACA CAGCTCTAGA CACTGCCACA 120
CAGGGTCTGC AAGGTCTTTG GTTCAGCTAA GCTAGGAATG AAATCCTGCT TCAGTGTATG 180
GNAATAAATG TATCATAGNA ATGTAACTTT TTGTAAGNCA AAGGTTTTCC TCTTCTATTT 240
TGTAAGTCA AAN 253
```

(2) INFORMATION FOR SEQ ID NO: 2360:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 253  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02723

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2360:

```
GATCAATCCC AAGAATCCAT CAGCAACCTC AGACCAACCC AAGAAGATAA TTAAATCTA 60
TACTGCTTAT TGGTCAATAT ATTTGGTTCT AGTATTAATA AAGAAAAATG TTATTAATAA 120
AGCATACATA GTAGTAAAT AAANTACANA AAGTGTGTTG ATTTATAGCT GTTTGAGATG 180
ATAAAAGTGN AGCAAAGCCT GTTAAATCAT TGGAAGACTT GGANANTTAT TTAAATAAN 240
CAATTACATG TAN 253
```

(2) INFORMATION FOR SEQ ID NO: 2361:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 252  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02724

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2361:

```
GATCTGCATA AACAGGGTTC CTGACCTCAC CGAAAAGACT AATGTGCCTT AGAACAAGCA 60
TTTGCTGTGT TTTGTTAGCA CCTGGTTCCA GGACAGACCC TCAGCTTCCC AAGAGGATAC 120
TGCTGCCAAG AAGTTGCTCT GAAGTCAGTT TCTATCGTTC TGCTCTTTGA TTCAAAGCAC 180
TGTTTCTNTC ACTGGGCCTC CAACCATGTT CCCTTCTTCT TAGCACCACA AATAATCAAA 240
ACCCNACATA AA 252
```

(2) INFORMATION FOR SEQ ID NO: 2362:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 251  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02725

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2362:

```
GATCTTCTCA GCCAGGAGAA GAGGGTGGTG TTTTCACGCG GGCAACTGCT CGCCGGCCTA 60
```

CATGGGGTTA ATTCAAGTCT GCTGCGAGCA CGACTCCGCC CTTGGCACTG GCCTCCAGCA 120  
 AGCCCTGTTC TCTTTGGGGT ACAGGGGAAC GGGATGGTTT AGACTTTCCT GCTCAGTGTG 180  
 TAAAAAATGT AGCTAAAGCC ACTATTTTTG CTCTCCTTAA GCTGTTCAAT AAACCGGTTT 240  
 CTCATTTTAA A 251

(2) INFORMATION FOR SEQ ID NO: 2363:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 308
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02727

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2363:

GATCTGGAAC ACTCCCTGA CCCCTTCACA CCTGGCCCTC CCTGGGCTTA AAGCTCCTGA 60  
 TATTCCTCAT CCCCTTCCTT GTTTTCCAGA ATCGGTCGAG GTGGACGGTT TGGCCGTAAA 120  
 GGTGTGGCTA TTAACATGGT GACAGAAGAA GACAAGAGGA CTCTTCGAGA CATTGAGACC 180  
 TTCTACAACA CCTCCATTGA GGAAATGCCC CTCAATGTTG CTGACCTCAT CTGAGGGGCT 240  
 GTNCTGCCAC CNAGCCNCAG NCAGGGCTCA ATCTCTGGGG GGCTGAGGGA GCAGCAGGGA 300  
 GGGGTGGN 308

(2) INFORMATION FOR SEQ ID NO: 2364:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 245
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02728

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2364:

GATCGTAGAT TTTTAACAAT CTGTATCTTT AACAAATCTG GGTGCNAGTG TNAGAGTGTG 60  
 AGCAGGGCTT GCTCCTGCCA ACCACAATTC AATGAATCCC CGACCCCCCT ACCCCATGCT 120  
 GTACTTGTGG TTCTCTTTTT GTATTTTGCA TCTNACCCCG GGGGGCTGGG ACAGATTGGC 180  
 AATGGGCCGT CCCCTCTCCC CTTGGTTCCT CACTGTTGCC AATAAAAAGC TCTTAAAAAC 240  
 GCAAA 245

(2) INFORMATION FOR SEQ ID NO: 2365:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 249
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02729

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2365:

GATCTAACCA ACTCAACTGA TAGAAAGCTG AATTGTTCCC AGTGGACAAG TGGTATTTGA 60  
 TGTTTAGCAG GTTTTTTTGT TGTTATTTTT TTGGTAAACT CTGTGGTAAA ATCTAAAATA 120  
 ATGTAAAAAC CCTAAAAGTA ACTATTGANT ATNCTGTAAT CTTAGACATG TATTTTTCAA 180

GCTAACCCCTT TGAAGAAATG TGTTCAAGGT AGGAAAATAT AAAATTTTTT GGTATTGTGT 240  
AAATTTAAA 249

(2) INFORMATION FOR SEQ ID NO: 2366:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 240
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02730

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2366:

GATCATGCAT TGTTGAGGTG GTCTGAATGT TCTGACATTA ACAGTTTTCC ATGAAAACGT 60  
TTTATTGTGT TTTTAATTTA TTTATTAAGA TGGATTCTCA GATATTTATA TTTTAATTTN 120  
ATTTTTTTCT ACCTTGAGGT CTTTGTGACAT GTGGAAAAGTG AATTTGAATG AAAAATTTAA 180  
GCATTGTTTG CTTATTGTTC CAAGACATTG TCAATAAAAG CATTTAAGTT GAATGCGAAA 240

(2) INFORMATION FOR SEQ ID NO: 2367:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 251
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02731

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2367:

GATCTATACT GTGTGGTCAT GAGTTGTGTA TAGTTCATA ACACTGTATT TTNCTNCTGT 60  
CAGTACCCTT AGGATACACT NTAAACACC TTAAGGTCTG ATGTTATGGC AACAAACTAC 120  
TTNTTCAAAC CTAAATAGGA ACCATGTAAT TNCTCAAAAG TGATTGAACA GTTTGCCCAC 180  
ACTTAGTTTG TTGGTCTTAT GTAAACATT GGCTCAAAAT AAAGNNCACA CTGATTTATT 240  
TNACTGNNA A 251

(2) INFORMATION FOR SEQ ID NO: 2368:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 239
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02732

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2368:

GATCTGAAAA TTTATTTTAC CCAGCTTTCA CAATTAAGTC TGTATAAAAT GTGGTACCTT 60  
TTNGTACCTA TCCAGAGAAA CCTGTACATA TTCAATGTTA TCTAGATGTG ATTGGATAAT 120  
GGAGAAAATN TATTTATAAT GATTTTNCAA TGGCATCAAT AACATTTAAA TGATTTTGAA 180  
GAAGTATTAT TTTACTACCC TATAAAATGA ATCGAAAATA ATAAAGTTCT TAACATAAA 239

(2) INFORMATION FOR SEQ ID NO: 2369:

(i) SEQUENCE CHARACTERISTICS:



- (A) LENGTH: 239
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS02733
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2369:

```
GATCAAATTA TCTTCAGCAT GTATATCTGG GGAAAAAAGG TCCGAATTTT CACATTTATA 60
TTTAAANTTC AATTTTTTAT ATTTAAANTT CAATTTTTTA GCAACAGCTG AATAGCTTTG 120
CGGAGGAGTT TAATAGTTAC ACATTCATGC TAATATACAT TNCCTTTAAA CATCCACAAA 180
TTCTTAAAAA GATTGAATCA GTANATTTCA TTTCAGCTAA AAATGGAGTC TAATATATN 239
```

(2) INFORMATION FOR SEQ ID NO: 2370:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 237
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS02734
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2370:

```
GATCCACCCG CCTTGGCCTC CCAGAGTGCT GTGATTACAG CTGTGAGCCT CCGTGCCCAG 60
GCCAGTGTC TCTCTTAAAT GTGTTTCAAT ATGGTGACA TTTATTGAGC ACTTGTTGTTG 120
GGCGTTTCAA CAGGAGGCAC TGGTACGAAA AGTAGCTTGT TCTAGTTCAT ATATCATTTG 180
CACTTTGCTT AACTTGTATA AGTACTTTTT ACTGTTTAAT AAATATTTTA TTAGAAA 237
```

(2) INFORMATION FOR SEQ ID NO: 2371:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 236
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS02735
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2371:

```
GATCAAAAGA GCAAACAATA CTTTCTATGG CTTATCAGCA GGAGTGTTTA CCAAAGACAT 60
TGATAAANCC ATAACAATCT CCTCTGCTCT GCAGGCAGGA ACANTNTGGG NGAATTGCTA 120
TGGCGTGGTA AGTNCCAGT GCCCCTTTGG TGGAATCAAG ATGTCTGGAA ATGGNAGAGA 180
ACTGGGAGAG TACGGTTTCC ATGAATATAC AGNGGTCAAA ACAGTCACAG TGAAAN 236
```

(2) INFORMATION FOR SEQ ID NO: 2372:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 236
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS02736

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2372:

GATCCNATTC CCGTTGCCTC AAAGCACCAG CTCTCTCGCT CCATCCTCCC AAGAGCCTCC 60  
 AAGGCGCCAT TGGCTTCCTG GGACTCTGAG TCTGCCGCC TCTTTCCTG ACTCCAGTTT 120  
 CTTCTGGCCT GAGCCAATGG GGCATGTTCT GTGACTGCAT TTGCATCTCG GATTGTGTTT 180  
 TTAAACCCAT TTTCTCCCAT ATTTGCCTGA AAAATATATA GAAACTGATA TACAAA 236

## (2) INFORMATION FOR SEQ ID NO: 2373:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 245  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02737

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2373:

GATCAGGCTG GTACAGGATG CCTTAAGGTG ATGAGAGGTG AGGGTGCATG AAGAATAATG 60  
 AGCACAGGGA AGAGAGAAGC AGGACAAAGT AGCAGATAAA ATGCCGGCAA AGCACAGATG 120  
 ANTGTTTTCA AGAAGCTCTT GTATTTNTNT GCACAGTGTA AATATCCTTG CTATTTTCAGG 180  
 ATGGCGGCTG GCCTGCTCAG TAACATACAT GTTCCAAATA AAGATTTTGC ATGAAAGTAC 240  
 CTAAG 245

## (2) INFORMATION FOR SEQ ID NO: 2374:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 231  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02738

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2374:

GATCTGACTG CCTCCTTTCT CTGGCCTCTN CCCCCTNCCC TCTTCTCTTC AGCTAGGCTA 60  
 GCTGGTTTGG AGTAGAATGG CAACTAATTC TAATTTTAAT TTATTAAATA TTTGGGGTTT 120  
 TGGTTTTTAA GCCAGAATTA CGGCTAGCAC CTAGCATTTT AGCAGAGGGA CCATTTTAGA 180  
 CAAAATGTA CTGTTAATGG GTTTTTTTTT AAAATTAAAN GATTAAATAA A 231

## (2) INFORMATION FOR SEQ ID NO: 2375:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 236  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02739

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2375:

GATCCACTGT GAGACCAAC CTGCTGCAGT CTCTGGGCC CCTGCTGGCA GCTCTGCCAC 60  
 GTCACCGNCT GCCTGGCTCC CACACAGCCA TGCATTGTCA CTCTGCCTCC GGGACCCNAG 120

CTTNGGAGCN NNTGGGTCTG CCAGGTCCCA CCTCCTCTGT CCCCNATGCC ACAACCTGGG 180  
 CTCCTGGCTA CAGCAGGGNT CCAGGGACTN CAAATAAATG TTCAGTGACT GGCAAA 236

(2) INFORMATION FOR SEQ ID NO: 2376:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 235
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02740

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2376:

GATCGGTCAC ACAAGCTGTT CCACGATAAT TTTTGTNTCA NAAGGGGAGN CTGACTACCA 60  
 GGACCACTGG CCCCACTTCC AGCCCCTCCA TTCTNAGTAC ACTTCAGAGG GCTCTGGCAG 120  
 GGTGAGGGGG TCTTGNCCGT GCCACAGAGA GTAAAGGTCT AGCACACCCA TTGTGGAGAT 180  
 ATTTTCATGGG GACANCCCAG TGACTTCACT TTGAAGTAAA GTGGGATTTT CCAAA 235

(2) INFORMATION FOR SEQ ID NO: 2377:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 253
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02741

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2377:

GATCGNAGGC TACCCTGGCT CAGTNACCAG CTGCTCACTG TGTCTTCTG TGGTCTCAGG 60  
 AGCTGCAGTT GTTGCTGTTG TATGAATAGA CGATAGTNAA TTAGACTGGA TGTGTCTGTA 120  
 CTGGCAGTNA TTTTCCAAC TNCCTCTGTAT AAGCAATACA TTTGTAAATC ATGGGAATGT 180  
 ATTTAATGGT AATTGCCTGT GGTGGTTGTA TCATGATTTA NTNNTATNAT GAGCTTTTGG 240  
 CTTTNTNTAT NTN 253

(2) INFORMATION FOR SEQ ID NO: 2378:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 232
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02742

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2378:

GATCTGGGGT CCCAGTGTCA TTGGTGAAGG CCTTGGGATT CGAGGCAGCT GAGTCCTCAC 60  
 TGACCAAGGA TGCCCTTG TG CTTACTCCAG CCTCCTTG TG GAAACCCAGC TCTCCTGTCT 120  
 CCCAGTGAAG ACTTGATG G CAGCCATCAG GGAAGGCTGG GTCCCAGCTG GGAGTATGGG 180  
 TGTGAGCTCT ATAGACCATC CCTCTCTGCA ATCAATAAAC ACTTGCTGA AA 232

(2) INFORMATION FOR SEQ ID NO: 2379:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 232  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02743  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2379:  
 GATCTCTGAA AAGNAGGTTT CAGCCACGAG GCAGCTGNTC CCAGGACACT GAGGCCAAGA 60  
 GAAATGTAAC AGAGCCACAG CTCCACAGGC CTGCACTCGG AGTCTGGGGC CTCTGCAGAG 120  
 CCAGCAAGGG GAAAAGTATA ATCTGGGGGA CCTTCAACCA CTAAGCCTCT TGTCAGAGCC 180  
 CTCAGGCAGG CAGATGTGTC ACCCAAATAA ACAGTGATAT TGTCTCCAGA AA 232

(2) INFORMATION FOR SEQ ID NO: 2380:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 232  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02744  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2380:  
 GATCTNAGCT GGACAGAGGA GGAGGAAGAG GAGGAAGCAA TGGGGGAATA GTGACACCAG 60  
 ACAGTTGATG TCTAGATAGG ACCTCAATNA TTCCNTTAGA ATCTNAGATA CCAGGATATT 120  
 GTTGGCCATG TGGCATCATT GAGCAGCAGG AGGCTGAAGG AGGNGAGAAC AAAATTGTCC 180  
 AAACCATGCT GTTTTTTTTCC CTTAAATAAA TCTTGATTTC TTCAGTTTCA AA 232

(2) INFORMATION FOR SEQ ID NO: 2381:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 236  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02745  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2381:  
 GATCTANGGA ACCAAACGGA AGGTTTTGAG GTGATGTAGG TCTTTCACAG TTAGCTTTGG 60  
 GGAATACAGA ATACTCAAAT AAAGTGCTTT GTTATTATTT CAGAGGGAAT GGCGATTGAA 120  
 ATGTTACAAC AGAGATTTCT TGGTGGTAGC TATTNNGGTA AAGGGTATAT GGNTATTTTT 180  
 CTGTACATGT GAAATTATAT AGANNTAAAA GTTATATANA TTACATTGGC CAGAAA 236

(2) INFORMATION FOR SEQ ID NO: 2382:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 229  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02746

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2382:

```

GATCAAGTTT AAGTCAGTCA GTTAAGGGGA GGAGAAGGAG AGGTTATACN TTCAGGGGGC 60
TACCAGACAG TGTTCTCAAC TTGGTTAAGG AGGAAGAAAA CCCAGTCAAT GAAATTCAAT 120
GAAATTCTTG GAAACTTCCA TTAAGTGTGT AGATTGAGCA GGTAGTAATT GCATGCAGTT 180
TGTACATTAG TGCATTAAAA GATGAATTAT TGAGTNCTTA AAGATTAAA 229

```

## (2) INFORMATION FOR SEQ ID NO: 2383:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 227
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02747

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2383:

```

GATCTGATTT CAGATTTTTT CTGTATCTTT TTTACATACA TCAGAAAAAG AAATGTTTAC 60
TATATTTTTG GTTCCATTNA TGATTGTTTT AAGCATTTGA CGNATAAGGA AAAC TAACAA 120
TTAANTCAAT TAGAAAAGCA ACATAAAATT AANTGATATT TAGGAAATCA GTTATATGTG 180
AGCTTGGGTA TTCAAATGTC ACAANTAAAA GGCNTANACC CATNAAA 227

```

## (2) INFORMATION FOR SEQ ID NO: 2384:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 223
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02749

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2384:

```

GATCAAATNA CCTGTGAAGG AATATTTTGC CTTATCCTA GCTGCTGGGG AAGCGGGGAG 60
AGGGGTCAGG NAGGCTAATG GTTGCTTTCC TGAATGTTTC TGGGGTACCA ATACGAGTNC 120
CCATAGGGNC TGCTCCCTCA AAAAGGGAGG GGACAGATGG GNAGCTTTTN TNACCTATTC 180
AAGGAATACG TGCCTTTTCC TTAAANNCTT TCATTGATTG AAA 223

```

## (2) INFORMATION FOR SEQ ID NO: 2385:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 221
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02750

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2385:

```

GATCAGGGTT TNGGGTCTGT GTTCTTTCTA CCGTCAGCAC CTGTGTGGTC AATTCTGGAC 60
ACTTCCCAGA GAAGTCTTTG AGTAGAGAAT CCTACTCAA TTTCACTGTA TATNTTAAGC 120
ATTCCTCTCC TNTCCNTTG CCTNCCCTGT TGCCTTNTCT TCCCCTGATT TCTCCTCTGG 180

```

TCATCTNCTC TCCCTNCTGC GTGTAAGCCA TGGGAAAGGG N

221

## (2) INFORMATION FOR SEQ ID NO: 2386:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 220
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02751

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2386:

```
GATCATGAAA ACAATGTAGG TAAAGTAAAG TATGTATTTG TCTGTGCTTG AAAAATATTG 60
TAAAATGTTA TGTATTTGGA ATATATTTTG TGGTTTGTCT AATATTTATA AACACAACTC 120
GGGGTGAATT CACANTGAGT TTATTTTCATT GAAATACTAG AGATATGGGG GCCATGTTAC 180
TGTGCTTGGN GCCTTACCNT TTGTATAGTG AAATTTGCAN 220
```

## (2) INFORMATION FOR SEQ ID NO: 2387:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 220
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02752

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2387:

```
GATCCGCCTG CCTTGGCCTC CCGAAGTGCT GGAATTACAG GCATGAGCCA CTGCTCCTGG 60
CCTAAGATGT TTTTAAATA ATGTTTTTAA CTAAATTTTA AGAATGTTTT TAACTAAAGT 120
TATTTATATT TGGAAATAATT CGTTAATGAT TTGTGTCATT TCCCCAACCC CTTTTTAAAT 180
TTGTGAATTT GAGGACTGGA TTAAAAGATA AAAAGTTAAA 220
```

## (2) INFORMATION FOR SEQ ID NO: 2388:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 339
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02753

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2388:

```
GATCTAATTA ATAGCTGACC TCCCAAATCT GACAGGATAG ACACTGCCAC GTGCAAGGCC 60
TGCCAGCCCC TCAGACGCAC AAAATGCGTA AAACAAATGC ATCCTTTCCT GGCTAAGCGA 120
GTATTACTCT CTTAGCCCTG CACCAAACCT CCAATCTAGC CACATTTAAC TTTTCATTTC 180
TTAGACCCGC AGAGTGTCTT CCTGCCTCTG AGCTGTGAGT GTTGTTCCCT TTGCCCAGGA 240
TGCTCTTGTT TTTAATACCA GTTCAAGTCC CACTCTCTCA GTGAAGCACT CCCTTCCCCA 300
CTNATAGCCT TTAGTGAACC CTCGTTTCTT GCTTCTTTN 339
```

## (2) INFORMATION FOR SEQ ID NO: 2389:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 219  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02754  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2389:  
 GATCCATGTG CAGTAATGCC TGGTGGCTCC AGGTCTGCCC CGCCGTCCTG TGGGGCTGTG 60  
 AGCTTTCCCA GCCTCCTGCC CGTGTGTTGTG AATATCATTC TGTCCTCAGC TGCATTTCCA 120  
 GCCCAGGCTG TTTGGCGCTG CCCAGGAATG GTATNAATTC CCCTGTTTCT CTTGTAGCCA 180  
 GTTACTAGAA TAAATCATC TACTTTAAAA TCTTTCAAA 219

(2) INFORMATION FOR SEQ ID NO: 2390:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 219  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02755  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2390:  
 GATCTTGACC GGGAAAAGGG ACTTGAGAGA ACCTTCTAGG ATAATTTNAT TTCTTGATTA 60  
 GGTGGTGGTT ACATTTGTAA AAATCATCGA CCTCTAAATT TAGGGTTTGT GCCCTTCACA 120  
 TACCTTGTTG TATGCATTTT GCCACTTGTT TTTTCAAAGC AATGAAAAAG TATCACTGCA 180  
 ATTAGTTTTT AAATAAATTT GTTTCGTAA CATGTCAAA 219

(2) INFORMATION FOR SEQ ID NO: 2391:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 218  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02756  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2391:  
 GATCTGGAAT CGGGGTCAGC GGGGCTACAG TCCTTCCAGG GGCTNTGGGG CAGCTCCCAG 60  
 CCTCTTCCCA TGCTGGTGGC CACCGTGTCC CTTGCTGCGG CTGCATCTTC CAGTCTCTCC 120  
 TCCGTCTTCC AGTGGCCGCT CTCTTTATAA GAACCCTGGT CATTGAATTT AAGGCCACC 180  
 CCAAGTCCAG AATGACCTCG CAAGACCCTT AACTCAAA 218

(2) INFORMATION FOR SEQ ID NO: 2392:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 217  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02758

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2392:

GATCCATTTT TAATGGTTCA TTTCCTTTAT GGTCATATAA CTGCACAGCT GAAGATGAAA 60  
 GGGGAAAATA AATGAAAATT TTACTTTTCG ATGCCAATGA TACATTGCAC TAAACTGATG 120  
 GAAGAAGTTA TCCAAAGTAC TGTATAACAT CTTGTTTATT ATTTAATGTT TTCTAAAATA 180  
 AAAAATGTGA GTGGTTTTCC AAATGGCCTA ATAAAN 217

## (2) INFORMATION FOR SEQ ID NO: 2393:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 216  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02760

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2393:

GATCAGAGGA ACTTTNAGGT GTCTGCCGGC TAACATTGTG TCATTCCTGG AGTCCACAGT 60  
 ACACGTCCCC TGCCTCAACA GGCACAGCTC TCACAAAGCT CTTCAAGCAT GGAAGTGGGA 120  
 GTTGTGTTGT ACTTCATGGC ACTCTGATGC CTGCTGTCTC AGTGTTTGGT TATTATGCAA 180  
 ACAAGTAATG TTTGAAATAT ATAATAGCAC TGGAAA 216

## (2) INFORMATION FOR SEQ ID NO: 2394:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 215  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02761

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2394:

GATCCATTTC TACCTGCATT TCCCAGAGGA CTAGCAGGAG GCAGCCTTGA GAAACCGGCA 60  
 GTTCCCAAGC CAGCGCCTGG CTGTTCTCTC ATTGTCAC TG CCCTCTCCCC AACCTCTCCT 120  
 CTAACCCACT AGAGATTGCC TGTGNCCTGC CTCTTGCCCTC TTGTAGAATG CAGCTCTGGC 180  
 CCTCAATAAA TACTTCCTGC ATTCNNCTGN NNAAA 215

## (2) INFORMATION FOR SEQ ID NO: 2395:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 214  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02762

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2395:

GATCTAAATG TAAAAGCAAA TGAAAAATGC ATGTNTTTTT NCCTGTCAAA CATGTATACC 60  
 CTTATGTATA GAGACCAGTA GTCACGTATG GTGACTGAAA CAGGATTATG TAATCCCTAA 120  
 AAAGCAGAAT ATGTAAAANT CACATGTATG CGTTTGGTTT AGGAATGTNC TTTTGTACTT 180



CCACTTGAAT AAAGGTGTGT TTGGTATTCT GAAA

214

## (2) INFORMATION FOR SEQ ID NO: 2396:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 212
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02764

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2396:

```
GATCCAGAAA TTCAAACCTC GAGAGCAGAT GGAACGACAT CTAAATCTNT GAATAAAGCA 60
GCAGGCCTGT CCTGGCCGGT TGGCTTGA CTCTCCTGTC AGAATGCAAC CTGGCTTTAT 120
GCACCTAGAT GTCCCCAGCA CCCAGTTCTG AGCCAGGCAC ATCAAATGTC AAGGAATTGA 180
CTGAACGAAC TAAGAGCTCC TGGATGGGTC CN 212
```

## (2) INFORMATION FOR SEQ ID NO: 2397:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 212
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02765

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2397:

```
GATCTATTAA AGTGTCAACT TTGCATTATA GAACTGAACA TGAAGTAAAT TGAGTGT TTC 60
TGAGTTTNTCT ATAGAAAATT TATGCTACCT CTCATCTTTT CACATACAAA TAAGCAACTT 120
TTAATGAAGG CTTAGGGTGN AAATTTTAAT TTTAGCACTT TACATTACAT GATGAATGGT 180
GAATATTAAA GGACTTTGAA CATTTTAATA AA 212
```

## (2) INFORMATION FOR SEQ ID NO: 2398:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 213
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02767

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2398:

```
GATCGAGAAG CTGCTCAATT ATGCACCCCT GGAGAAGTGA CCACGCTGAA ACCCACCAC 60
CCGCTGTGCT GACCATGGGC CCTGAGCGTC CTACCCCGAA TTCACGAGGC TGAGGCATCC 120
GGGAGCTGGC GTAATGCCTG GCCGCAGTGT GTGTGTATCC CATACCCAC TCTGGAAGGA 180
ACCATCCAGT AAAGGTCTTT CAGAACCACT AAA 213
```

## (2) INFORMATION FOR SEQ ID NO: 2399:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 211
- (B) TYPE: nucleic acid

- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS02768
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2399:

```
GATCAGAGAT GCACCACCAA GCCAAGGGAA CCTGTGTCCG GTATTCGATA CTGCGACTTT 60
CTGCCCTGGAG TGTATGACTG CACATGACTC GGGGGTGGGG AAAGGGGTCG GCTGACCATG 120
CTCATCTGCT GGTCCGTGGG ACGGTGCCCA AAGCCAGAGG CTGGGTTCAT TTGTGTAACG 180
ACAATAAACG GTA CTTGTCA TTTCGGGCAA A 211
```

(2) INFORMATION FOR SEQ ID NO: 2400:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 211
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS02769
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2400:

```
GATCAGACAC CCCTTCACGT GTATCCCCAC ACAAATGCAA GCTCACCAAG GTCCCCTCTC 60
AGTCCCCTTC CCTACACCCT GACCTGGCCA CTGCCGNACA CCCACCCAGA GCACGCCACC 120
CGCCATGGGA GTGTGCTCAG GAGTCGCGGG CAGCGTGGAC ATCTGTCCCA GAGGGGGCAG 180
AATCTCCAAT AGAGGACTGA GNACTGCTAA A 211
```

(2) INFORMATION FOR SEQ ID NO: 2401:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 206
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS02770
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2401:

```
GATCACCTAC TTA CTTGTTT CTACATTATT ATATGNCATA GTATAATGAG ACAATATCAA 60
AAGTAAACAT GTAATGACAA TACATACTAA CATTCTTGTA GGAGTGGTTA GAGAAGCTGA 120
TGCCCTNGNTT CTACATTCTG TCATTAGCTA TTATCNTCTA ACGGTTTCAGT GTATCCTTAC 180
AGGAATAAAAA GCAGCATNTG GNTAAA 206
```

(2) INFORMATION FOR SEQ ID NO: 2402:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 205
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS02771
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2402:

```

GATCGAATGA AGGATTCAAA ATTAACCACT CCAAGGGGGG ATTGAAGGAA GAACCACTCT 60
TAATGGACAA AAAGAAAGAA AGGGGAGGGA GTAACAGGGA TATNAGCTCT AGCCGCCCAA 120
GCTAGCAATG GCAACCCTTC TGGGTCCCCT TCCAGCATGT GGAAGCTTTC CTTTCGCTTC 180
ATTCAATAAA CAGCTGCTGC TCAAA 205

```

## (2) INFORMATION FOR SEQ ID NO: 2403:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 228
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02772

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2403:

```

GATCTATAGA CATNAGGAAG GGAGTNAGAC GGCTCCTCCA CCATCCTCAG CCAGTGCAAC 60
CCATTCCCTC TNCCTCTCTC TCTCTCTCTC TCTCTCCCTC CCTCTCCTTC CCTACCCTCT 120
CACCATCTTT NTTGGCCTCT CTNAGGGTCT CTCTGTGCAT CTNTTTAGGA ATCTNGCTCT 180
CACTCTCTAC GTAGCCACTC TCCTTCCCN ATTTNTGNGT CCACCCNN 228

```

## (2) INFORMATION FOR SEQ ID NO: 2404:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 273
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02773

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2404:

```

GATCTAGCTA GGGCTTTGTC TTTTCATCTT TGTGCATAAC TTACCTGTTA CCAGTATAGG 60
TGGGATATAC ATNTATCTTG CAGGAAATTC CCCAAAGCTC AGAGTCCAGT TCCTTCCATA 120
AAACAGGCTG GACAAATGAC CACTATGTTA GACCCCCCGG NTCGACTTCA GGGGTGAGTG 180
TTCCTGTCCC AAACCCNCAC ACAGAATNCT CTGNCTGNGG TTCATGTNGA AACTGAGCAA 240
AAACTANAGT ATCTNTCAAN ANGTGTAACN TGN 273

```

## (2) INFORMATION FOR SEQ ID NO: 2405:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 203
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02774

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2405:

```

GATCCACCTC ATATGTGAGT CCGTCCAAAA GATGTTACTG CTCTGGGTGG GCCAGTGTTT 60
TATATCGGTT ATACTAACTT TCATTAAAG TATTTATTCT AAAATGCCTC TGAGAAACAG 120
TAAAAAATAA AAACAACAAG TTGTCTAAAA TGCAACAGCT TTTATAGTAA ATGTACATT 180
ATAAATAAAA TACTCAAATC AAA 203

```

## (2) INFORMATION FOR SEQ ID NO: 2406:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 203
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02775

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2406:

```
GATCTCTGAT GGATTGTGTG ACTCCTCTGT GGGAGAAAGG CTTGGTCTAC TGCAGGTGTT 60
AACGCTAAGC CAGGCTGGAG CTGCGGACGT NAGTTTCCTC AGCNCCCCGC TGTTTCGCTTC 120
GAACGTNACC TCGACGTCTG CTCTCCCCTT CCCTTTAGCT GACAATGTGA CAGTNCCTGA 180
ATAAAAGTNA GTCTGACAGG AAA 203
```

## (2) INFORMATION FOR SEQ ID NO: 2407:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 205
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02776

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2407:

```
GATCTGAATG TGAATTTCTA ATTGTATCAG ACGTTAATGT TTTAAAGCTA TAACAAAGTT 60
TAAATTTTCT ACTTTTGTGTT TTTNATTTAT TTTAACTGTT CTTTTATCTA TTAAATTGTT 120
GTATGTGGAT GGGGAAAGTTT TGTTTCTCCT CTTAGCATTT GTTTCTATAA CCAGAAATAA 180
AATTCTATAT TAAAGAAATG ACAA 205
```

## (2) INFORMATION FOR SEQ ID NO: 2408:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 201
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02777

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2408:

```
GATCCCAATC TGAGAAAAGG CAAAAGAATG GCTACTTTTT TCTATGCTGG NGTATTTTCT 60
AATAATCCTG CTTGACCCTT ATCTGACCTC TTTGGAAACT ATAACATAGC TGTCACAGTA 120
TAGTCACAAT CCACAAATGA TGCAGGTGCA AATGGTTTAT AGCCCTGTGA AGTTCTTAAA 180
GTTTAGAGGC TAACTTACAG N 201
```

## (2) INFORMATION FOR SEQ ID NO: 2409:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 200
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single

- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS02778
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2409:

```
GATCTTTAAC TGCCTGCTGA TAAGATATTG GGCCAACTGA AAATAGAAAT TGTTCTTTCT 60
TAGAAATATT TTAATGCTAA CTTGTTAGTT TTCCTCAGAA AGCTAGTATT TGAAGCCATT 120
CGAGTTTAAG ATNCTCTAAT TTCAATAAAA TAGCTTCCAA ATATTTAAAA TGTAATAAAA 180
TATATGTTTG ACACTCTAAA 200
```

## (2) INFORMATION FOR SEQ ID NO: 2410:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 198
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS02779
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2410:

```
GATCAAAACG CTCCATCTTT TTACAGTGGC ATAGGAAGAC GGCAAAAATT TCCTAAAGTG 60
CAATAGATTT TCAAGTGTAT TGTGCCTTGT TCTAAACTTT TTATTAAGTA GGTGCACTTG 120
ACAGTATTGA GGTCANNNNN TATGGTGCTA TTTCANTNAG TCTAGGTTTA GGCCCTTGTA 180
CATNTTGCCC ATAACNNN 198
```

## (2) INFORMATION FOR SEQ ID NO: 2411:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 198
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS02780
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2411:

```
GATCTGCCCA TTGCTGAAAC TTCAGTACTT AAGTCCCCTA TTATNATTGT ATGGCAATCT 60
ATCTGTCCAC TCAGAAGTTA TTATATTTGT TTTATATGAT TGAGCACTTC TGTTTTGGGT 120
ATATATGTAT TTACAATNAC TATAACCTCT TGCTGAATTA ACCCCTNTTA CCATTATGTA 180
ATAAACTTAT TTCCCAA 198
```

## (2) INFORMATION FOR SEQ ID NO: 2412:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 198
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS02781
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2412:

GATCTTGAAT CACTTGACAG TGTTTGTNG AATTGTGTTN GTTTTNCCT TTGATGGGCT 60  
 TAAAAGAAAT NATCCAAAGG GAGAAAGAGC AGTATGCCAC TTCTTAAAC AGAACAAAAC 120  
 AAAAAAGAA AATTGGGCTC TTTTCTAATC CAAAGGGTAT ATTTNCAGCA TGCTTGACTT 180  
 TACCAATNCT GATGACAN 198

(2) INFORMATION FOR SEQ ID NO: 2413:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 359
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02782

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2413:

GATCCAAAGT AACTAAACAG GAGCCACAA GACGGTCTGC CAGATTGTCA GCGAAACCTG 60  
 CTCCACCAA ACCTGAACCC AAACCAAGAA AAACATCTGC TAAGAAAGAA CCTGGAGCAA 120  
 AGATTAGCAG AGGTGCTAAA GGGAAGAAGG AGGAAAAGCA GGAAGCTGGA AAGGANGGCA 180  
 CAGAAACTG NTTCTGTAGA TAACGTGGGA GAATGANTTG TCATGAAAT TTGGTGGTTG 240  
 ATTTTTTTGT NTGTCTTGGG ACAACTTTTA AANGCTATTT TTNCCANGTN TTTTNGTNN 300  
 TTGGTTTTTT TTTTAGGGNT CTNCTTGTTG GCATNCGGNA GTTTTTTANG GTTTGGNCN 359

(2) INFORMATION FOR SEQ ID NO: 2414:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 198
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02783

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2414:

GATCCCAGGG GTGCACATGG GCCCCTTGGG TGTCTGAACA GAAGGGCATG GNAGGAAGGG 60  
 CTGCACCCCT GCAGTCTTAC TCTGCTGGTG TAGCGGGCAG CTGCCCCACTC CCACCCACC 120  
 CTGCACCGCG GGCTCCTNAG TCGGCAGATT AAGCATTTNA TAAATTGTAT TTAAATACA 180  
 TGTTTTAAAC TTGTCAA 198

(2) INFORMATION FOR SEQ ID NO: 2415:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 167
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02785

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2415:

GATCCCATCC ATCAGCTCCC TTTTCTTTT CCCTTGAAC GTTCTGGCCT CAGACCAACT 60  
 CTCTCCNNNN NTAATCTCTC TCCTGTATAA CCCCACCTTG CCAAGCTTTC TTCTACAACC 120  
 AGAGCCCCC ACAATGATGA TTAAACACCT GACACATCTT GCANAAA 167

## (2) INFORMATION FOR SEQ ID NO: 2416:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 196
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02786

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2416:

```
GATCTGTGAT TGGNTGGTTA ATGGGAAACG GTTTTTTNCT TTGGCTGCAG GTGTTCTGCT 60
GATATCAACA GCTTCCCTAT TTTNAATGCA GAAAACAGGG TCTGGGACAT TAGTCGTTAT 120
ATTTNACTTG AAAAGAAAGA AACCAAGTGC GCTTTGCAAT ATTTATTACA CAAAGAACTT 180
GCTGCTGCAT TCTAAA 196
```

## (2) INFORMATION FOR SEQ ID NO: 2417:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 194
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02787

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2417:

```
GATCACAGAT TTCCCTGCCA GGGTGTCTGT GGTATCAGC TGCAGGCTCA GCTNGGGTCG 60
GCCGNTTCAC ACAAGCCACT CTGTACCACG TGCCCTACCT TAGTGACGGG AGTAAGGAGC 120
TTCCTTCCCC TCCATGTCAT TCCTNCCTGT TCCNTNCATT CCCCACAGC AAATAAAACT 180
GTTGAATGCT CAAA 194
```

## (2) INFORMATION FOR SEQ ID NO: 2418:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 193
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02788

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2418:

```
GATCTTCCTA CGCACAAACAC AAACGTCAGT TAATGTTCCA TCCATGCTGC TTAAAGAGCA 60
TTCCTGTCCT AGTAAAATGG GCAAGTCCCT CTACCCCCCA CCCTCACCTG GTATGCTTAC 120
ATTAATAGCT AAAGTCAATC CTGTAATGAA ATAAAGCAAG TGGTAGCTGT CTGGTAGCCT 180
CCACTACTGC AAA 193
```

## (2) INFORMATION FOR SEQ ID NO: 2419:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 193
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02789

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2419:

```

GATCAAAACC CAGCAGAGTG CAAGCAGCAG TGAAGCAGGA TGTATGTGGA CTTGAGGATA 60
ACCTGCACTG GTCTACCTTC TGCTTCCCTG GAAAGGATGA ATTTACATCA TTTGACAAGC 120
CTATTTTCAA GTTATTTGTT GTTTGTTTGC TTGTTTTNT TTTTGCAGCT AAAATAAAAA 180
TTTCAAATAC AAA 193

```

## (2) INFORMATION FOR SEQ ID NO: 2420:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 192  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02790

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2420:

```

GATCAGACCT CAATAATTTT ATACTGTAAT AAGCTCTTTG AATGTNTATA TTATTATTTT 60
TNACAATCAT TTCATTTTGT ATTTAATATC AATGGACTGA GTCTGATTCA GAAAATAATT 120
GTAATGTTCA TATTCAATAT CTTACAGTGA TACAGTTTTG TATTTACATA TAAATATACC 180
GACATGACCA AA 192

```

## (2) INFORMATION FOR SEQ ID NO: 2421:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 276  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02791

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2421:

```

GATCAGGGTT TCAAGAATGA CTGCAGTGGG TTTTGGAAAC AGACTTATCA TTATTGATTT 60
GAGGTTTCCC AGAGATATAG TTCACAGTTA ATTGTTGCGC TCTAATACAA CTGACCATTT 120
AAAATTGAAC AAGTTTATTG TTTTGTAACA ATGTCAGTTG TTAAACCTTG NCATTTCAAT 180
TAAACATGA NTTGTAGTTA TAACTCANTG CAANTNCAAC AGTTGTATTT GGNGTTAANT 240
TATTTTCACA CGTNNCTTTN TTTTCATGGAN MNCCCN 276

```

## (2) INFORMATION FOR SEQ ID NO: 2422:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 191  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02792

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2422:



GATCTTTTAT TTTCTCATTA TTTATAACTT CAGACTTGGG CCCCCTGTTC TTTCTTTCCC 60  
 ATTAACCTGA GTGACGTGTG TGAGAGACAG ACAGATGCCC CACGAGGATG GCTGGACAAG 120  
 GACTTTTACT TTTTATTACA TAAAAATATT AAAAAATAAA TAAAAAAAT AAAATTTTAA 180  
 ACTAACTTAA A 191

(2) INFORMATION FOR SEQ ID NO: 2423:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 189
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02793

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2423:

GATCGGAATG CGGGGTCGAG AGCTGATGGG CGGCATTGGG AAAACCATGA TGCAGAGTGG 60  
 CGGCACCTTT GGCACATTCA TGGCCATTGG GATGGGCATC CGATGCTAAC CATGGTTGCC 120  
 AACTACATCT GTCCCTNCCC ATCAATCCCA GCCCATGTAC TAATAAAAGA AAGTCTTTGA 180  
 GTAGTCAAA 189

(2) INFORMATION FOR SEQ ID NO: 2424:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 187
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02794

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2424:

GATCGAGACC ATCCTGGCTA AAACGCCTGG AATGCAGTGG CACAATCACT GCTCACTGCA 60  
 GCCTTGACCG TNTGGACTCA AGTAATTCTC CTACTTCAAC CTCCCAAGTA GCTGGGACTA 120  
 CAGTCATGCA CCATCATGCC TATAAAGATA ATTTAATTTA TAATAAATNA TTTATACAAA 180  
 CAATAAA 187

(2) INFORMATION FOR SEQ ID NO: 2425:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 187
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02795

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2425:

GATCAATCGT GCATCCTNAG TGAACCTCTG TTGTCCTCAA GCATGGTCTN NNTACTTGTG 60  
 AACTATGGTG TTCAGTTTTG CCTCTGTTAG AAATTCACAC TGTTGTTGTA ATNATGTGGA 120  
 ACTCCTCTAA AANTTACAGT ATTGTCTGTG AAGGTATCTA TACTAATAAA AAAGCATGTG 180  
 TAGNAAA 187

(2) INFORMATION FOR SEQ ID NO: 2426:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 185  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02796  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2426:

```

GATCNCGTTT TNAACCCGNT CCTGCCCCAC CTGCCCTATA GTTATGGCCT GTGTTCTGCT 60
CTCCTGGTCC CAGTGCACCG TCTGCTCTGT GAACTCCTCC CACCAGGCCC TTCTTACCCC 120
ACGCGTGTCT GTCCCCNTCG TTCTGTAGCG GGNGGTACAT AATAAAACAA TGGNGTGGNG 180
ACAAA 185

```

(2) INFORMATION FOR SEQ ID NO: 2427:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 181  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02797  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2427:

```

GATCTATGTT TTCTGAAAAT AATTGGTTAA TGAAGTTAT CTAATATATT TNAACTGTTC 60
CTGTTAAAAA CAATAGGCTT CAAGATGACA TAACACCAAA TCAAAAATNA CCAAAGGAAT 120
CATTTTGTTC GTTAGATTG TAATTTAGCA TCATTGGCAA TAAATCTACT CAAACGTAA 180
A 181

```

(2) INFORMATION FOR SEQ ID NO: 2428:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 180  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02798  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2428:

```

GATCCCAAAG GGGTTGGAGG CAGGGAATAT TTGAAAATTC AGACTGGAAT TCCAGGCCAA 60
AAGCTCAAGA CCACCAGCCT CTCCTCCTGC CTGGAAAAAT AAGCCTTTGT GAAAGACTGA 120
TTTACCATGT ACAATTGTGA TTGTGAACGT TGTTGAGTAA ACCTCCAGAC TTTCTCTAAA 180

```

(2) INFORMATION FOR SEQ ID NO: 2429:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 186  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02799

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2429:

GATCATAAGT NAAAAATGTA TTAAATATAC CTAACCTACC AAACATCATA GCTTAGCCTA 60  
 GCCTGCCTTA AACATGCTCA GAACACTTAC ATTAGCCTAC AGTGGGCAAA ACTATCCAAC 120  
 ACAAATCTA TATTGTAATA AAGTTATAAA GANTTTTGAA TAAAANTTCA ATATTTGANG 180  
 TACAAA 186

## (2) INFORMATION FOR SEQ ID NO: 2430:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 180  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02800

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2430:

GATCTGGTGG AGGGAAGTGA AGATGAAGGC CTCTCAGGCA CCATGGATGG NATGGGTGTG 60  
 TGTNAAGGGG GCAGGTCCC CAGGAGCTGC CCCAGGTCTG GCTNGACAGT TGCACGGNAA 120  
 GTCCTGTTTG TAACTCAAC GTTCCACGN CTTTCCATT AAACCTTACC CCAAATCAAA 180

## (2) INFORMATION FOR SEQ ID NO: 2431:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 180  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02801

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2431:

GATCTATTTT TCCTAAAACA TTCCCCTCCC CACTCCTCTC CCACAGAGTG CTNNNTGTT 60  
 CCAGGCCCTC CAGTGGGCTG ATGCTGGGAC CCTTAGGATG GGGCTCCAG CTCCTTTCTC 120  
 CTGTGAATNG AGGCAGAGAC CTCCAATAAA GTGCCTTCTG GGCTTTTCTNCT AACCTTTAAA 180

## (2) INFORMATION FOR SEQ ID NO: 2432:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 179  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02802

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2432:

GATCTTCACC AATGGCAAGT GGAATGACAG GGCTTGTGGA GAAAAGCNNN TTGTGGTCTG 60  
 CGAGTTCTGA GCCAACTGGG GTGGGTGGGG CAGTGCTTGG CCCAGGAGTT TGGCCAGAAG 120  
 TCAAGGCTTA GACCTCATG CTGCCAATAT CCTAATAAAA AGGTGACCAT CTGTGCAAA 179

## (2) INFORMATION FOR SEQ ID NO: 2433:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 273  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02803
- (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2433:  
 GATCTAAAAA TTCAATGCAA ATATCTTTTA TTTGGTAGTT TTGTCTACAT ATTTNATGCT 60  
 CTAGCATGTG CAATATATCT TTGTAAAGCA CGATGATACA AATCTGGTGC CAGTGTTATA 120  
 TTTNGCATAA CATATTTGTA ACAGCATAAA ATATTGTTTG ATGATTTCAG TGGGATTTTG 180  
 TCTATAATGT TTTCTTATGT AAATNGGAGT TGAATGACTC TGGTAAATGT CATGACTGTA 240  
 AAANTGGGGA AANTGACTTT NAGTTCAGTG AAN 273
- (2) INFORMATION FOR SEQ ID NO: 2434:
- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 178  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02804
- (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2434:  
 GATCCAAACT AATTTTACAT TTAAAAAAGG AGTTAAACTA AACTTCTTTA CTGCTGATAT 60  
 GTTTCCTGTA TTCTAGAAAA ATTTTNACAC TTTCACATTA TTTTGTGACA CTTTCCCCAT 120  
 GTTAAGGGAT GATGGCTTTT ATAAATNTGT ATTCATTAAA TGTTACTTTA AAAATAAA 178
- (2) INFORMATION FOR SEQ ID NO: 2435:
- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 176  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02805
- (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2435:  
 GATCTAAAT AAATATTGTT AAAAGCATT CCTCTAGGGA ATGGGATTTA GATTTAAAAA 60  
 GGGTGGGATG GGAACTGTG TTTTTCATTT TAAGTCCTTC TGTACTANNT AATTGTGNAC 120  
 CTTGTGCATG TATTACTTTG AAAAAATTTT TAATAAACCC AAATAAAANT CTAAA 176
- (2) INFORMATION FOR SEQ ID NO: 2436:
- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 175  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02806

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2436:

GATCANCCCT CAAGGGCACA TGCCAAGGGC AGAGCAGCCC ATNTAGACAG CTTCGNAGGG 60  
 CATGGGGGTG TAGGGAGTTC GGGGTAGCTC CTCATTAACT ATTTGTNGGN TGAGTAAAGG 120  
 GGTGAGGCTC AGTGGCAGGT ACCTCTNCAA TNACAAGCTG CCNCCCCTCT ATGTN 175

## (2) INFORMATION FOR SEQ ID NO: 2437:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 175  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02807

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2437:

GATCGGCAGC AAGAGTAAAG ACACAGCTCC AGAGGCCAC ACTGTGGGGT CTGGGCCCTG 60  
 CCTTAGGCAG CCCCCCTCTT TGGCCCCCTC CTGTCAGGCC CAGGGCTTGG AGTGAAAGTN 120  
 ACTCTCAGGT GGTGGGGTGG GGAATGTGAA TAAACATGAT TTCTTGCCGG GCAA 175

## (2) INFORMATION FOR SEQ ID NO: 2438:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 174  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02808

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2438:

GATCCCTTCA CTGGCCCCCT CGGGAGNCCT GGGTTGGACT CAGGGNCTCC NCCAGCTGGG 60  
 GNGGNGGACC GCAGCACCTA TCTGAGCAGT TAGAGCGTCT TTTTTTTCAG ATTGTGTACA 120  
 GTAGATTATT TATTTTGTNA TTTTGAATA AAATTTATTT TATGGCTTAG GAAA 174

## (2) INFORMATION FOR SEQ ID NO: 2439:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 172  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02809

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2439:

GATCTTGTCT GAAATGCTAG TTTCTGACTA CAAAACTAC AGGACATAGT AGATATGCTC 60  
 AGTAGAGCTG CTTAAATAA TTCCCTTTT TTTCTGTTG AATTCTGTTA CAAAACCAGG 120  
 TCTGTGTTAT AATAGAAANC AACTTATGA ATAAAAATCT TTAAAAATTA AA 172

## (2) INFORMATION FOR SEQ ID NO: 2440:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 171  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02810  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2440:  
 GATCAATGTC CCTGGTTACC TATGTGTTTG AATTATCTTC GTGTTACAGG TGTTTAATGA 60  
 TTTNCTCCT TCTAGCTTAT TTGTATTTCA CCTGTTTTTC TTAAATNAA CATGGTTACA 120  
 CTNTGTTTCA GCAACTGTAT AAATTAAACA CAGATNATTA CTACTGCTAA A 171

(2) INFORMATION FOR SEQ ID NO: 2441:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 170  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02811  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2441:  
 GATCGTAAAA TTTTAAGCAC TAAAAATTTT TTCATAACCT TTCATAATAA AGTTTAATAA 60  
 TAGGTTTATT AACTGAATTT CATTAGTTTT TTAAAGTGT TTTTGGTTTG TGTATATATA 120  
 CATATACAAA TACAACATTT ACAATAAATA AAATACTTGA AATTCTCAA 170

(2) INFORMATION FOR SEQ ID NO: 2442:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 196  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02812  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2442:  
 GATCTACTTT GAATTCCACA CTCTCATTAA TAAATTGANT AAAAGGGAAT ATTTTGGCAC 60  
 CTGATATAAT CTGCCAGGCT ATGTGACAGT AGGAAGGAAT GGTTCCTCCCT AACANGCCCA 120  
 ATGCACTGGT CTGACTTTAT AAATNATTTA ATAAATGAA CTATTATCAA ATAAACGTA 180  
 TGATTGAGTC CTTAAA 196

(2) INFORMATION FOR SEQ ID NO: 2443:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 216  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02813  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2443:

```

GATCAAATTT TTTTCTTGCA ATNATGTGAT GAGTTGCCAA ATAATTGANA TTATTTTAAA 60
ATGTTTTTGT CATATCTTGT TTTTATAATT AAAATTTACA TTCAGTGTGT ATGGGTTTTT 120
TTTTNATTTT NACTCTTAAT GTAAGGTGGA TATTNCTGTN ATTTTACATG GTTCTTACT 180
GAGATTTTAT ATATAANTNA TAAAANGTTT ACCAAA 216

```

## (2) INFORMATION FOR SEQ ID NO: 2444:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 173
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02814

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2444:

```

GATCGTTAAT GCCCTTGAAG TGGTTTTTGT GGGTGTGAAC AAATGGTGAG AATTTGAATT 60
GGTCCCTCCT ATNATAGTAT TGAAATAAAG TCTACTTAAT TTATCAAGTC ATGTTTCATGC 120
CCTGATTTTA TACTATTGTA TCTATCAATA AACATTGTGA TACTTGATGT AAA 173

```

## (2) INFORMATION FOR SEQ ID NO: 2445:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 223
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02815

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2445:

```

GATCAGCTCC GTGGGGCTGG TTTTGGTCCA CAGCATAACA GGCAGTGCCT CCTTACCTGT 60
GAGGAATGCA AAATAAAGCA TGGATTAAGT GAGAAGGGAG ACTCTCAGCC TTCAGCTTCC 120
TAAATTCTGT GTCTGTGACT TTCGAAGTTT TTAAACCTC TGAATTTGTA CACATTTAAA 180
ATTTCAAGTG TACTTTAAAA TAAATACTT CTAATGGAAC AAA 223

```

## (2) INFORMATION FOR SEQ ID NO: 2446:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 168
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02816

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2446:

```

GATCTGTCAC TTTGTATAAA AACAAGAAAC GATTAGTTCA TTAAACTTTT TCTTTACCTT 60
CTGGTAGTAA AAATAGATAA AATAATCCG TNTCACTAC TGTGTGTAAA AAGCCTGTAT 120
CATATGTAAC TGGGACTTTT GTAAATAAAT NTTTTTGCGC TCTGCAA 168

```

## (2) INFORMATION FOR SEQ ID NO: 2447:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 168  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02817  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2447:  
 GATCATAAAA TGTATCTTTT CCATGGCCAA CAAGGNGCAT CTNTTATAAA TGCATAATAA 60  
 CCCAGTTNGT ATCAAAGGGT ATCGACTTAA GTGAAATTTC AACATGCTGT TACTTTTTTC 120  
 TTTTAATGTA ATNCTGTTTT CCAAATAAAT GGGGGAGACA AATGGAAA 168

(2) INFORMATION FOR SEQ ID NO: 2448:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 135  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02818  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2448:  
 GATCTGTGCA ATAAAGTGTT TGCAGTCTTA TTATTCTCTA AGAAATTCCT TATGGACGTC 60  
 ATAATTGTTG TATATTGAAC AAAATATTTA TACTTATGCA GTTGCATAAC ATTGAAATAA 120  
 AAATTTAGCA TGAAA 135

(2) INFORMATION FOR SEQ ID NO: 2449:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 167  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02819  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2449:  
 GATCCTGCCA GAAAATTTCA AAGACAGTAG ATTGAAAAGG AAAGGCTTGG TAAAAAAGGT 60  
 TCAGGCATTC CTAGCCGAGT GTGACACAGT GGAGCAGAAC ATCTGCCAGG AGACTGNGCG 120  
 GCTGCAGTCT ACAAACCTTG CCCTGGCCGA GTGAGGTGTA GCAGCAN 167

(2) INFORMATION FOR SEQ ID NO: 2450:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 167  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02820  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2450:



GATCAGNAGG CATCACTGAG GCCAGGAGCT CTGCCCATGA ACCTGTATCC CACGTACTCC 60  
 AACTTCCATT CCTCGGCCTG CCCCCGGAGC CGAGTCCTGT ATCAGCCCTT TATCCTCACA 120  
 CGCTTTTCTA CAATGGCATT CAATAAAGTG CACGTGTTTC TGGTAAA 167

(2) INFORMATION FOR SEQ ID NO: 2451:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 413  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02821

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2451:

GATCCGGTTT CTTTTTGCTC GCCCCTGTTT TTTGTAGAAT CTCTTCATGC TTGACATACC 60  
 TACCAGTATT ATTCCCAGAC ACACATATAC ATATGAGAAT ATACCTTATT TATTTTTGTG 120  
 TAGGTGTCTG CCTTCACAAA TGTCATTGTC TACTCCTAGA AGAACCAAAT ACCTCAATTT 180  
 TTGTTTTTGA GTACTGTACT ATCCTGTAAA TATATCTTAA GCAGGTTTGT TTTCAGCACT 240  
 GATGGAAAAT ACCAGTGTG GGTTTTTTTT TAGTTGCCAA CAGTTGTATG TTTGCTGATT 300  
 ATTTATGACC TGAAATAATA TATTNGTNC TTCTAAGANG ACATTTTGTT ACATAAGGGG 360  
 ATGGCCTTTT TTATACAANG GGAATAANAT TNTGGGCATT TCCTATGGAA AAA 413

(2) INFORMATION FOR SEQ ID NO: 2452:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 166  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02822

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2452:

GATCTGTNAT TGGCATCTTG GTTCTACCTT TTATCAGATG TTGTTGCCTT GTGCAAATNA 60  
 CATTTTCTCT GAGTCTCCAT TTTCTCATTT ATAACATGCG GAGAATAATA CTTATATTTG 120  
 TGGTAGTAGT GTGAACATTA AAAAGATAAT GTATGTGAAG TACAAA 166

(2) INFORMATION FOR SEQ ID NO: 2453:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 165  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02823

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2453:

GATCCATGCT AATATTGTAT TTTTNTTAA AACATAGCTT TCCTGTAATT TAAAGTGCTT 60  
 TTATGAAAAT ATTTGTAATT AATTATATAT AGTTGGAAAT AGCAGTAAGC TTTCCCATTA 120  
 TAATATATTT TGNTATACAA ATAAAATTTG AACTGAAGTC TGAAA 165

(2) INFORMATION FOR SEQ ID NO: 2454:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 164  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02824
- (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2454:  
 GATCTTGTTA GAAGGCAGTA GGTCTGGGGT GGGGCCTGAG ATTCTGCATT TCTAACCAGG 60  
 TCCTGGGAGA TGCTGATGCT ATCGAGCCAC AACCACACTT TGAGTAGCAA GCCTCTGGCC 120  
 TATCCTTANN NNTTGAATA TTAAAATGCT GCCTCTCAGT CAAA 164
- (2) INFORMATION FOR SEQ ID NO: 2455:
- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 164  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02825
- (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2455:  
 GATCAATGCC AGATTTTNTT NTTGGGGTAA GTTAGCTGAA GTCATTTAAA GATGGAAAGG 60  
 TGGGAAAATN CTTTGATATT TGATGTCATT GTATCCACAT TTNTTGTAAG ACATATTGCA 120  
 TACCANTTAT AATNATATCA ATTAAAGTTG ATAAAAGCTT CAAA 164
- (2) INFORMATION FOR SEQ ID NO: 2456:
- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 164  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02826
- (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2456:  
 GATCCCTTCT GCCCTGGCAG AATGGCAGGG GTAATCTNAG CCTTCTNCAN TCCTTTACCC 60  
 TAGCTGACCC CTTACCTCT CCCCTCCCT TTNCCTTTGT NTTGGGATTC AGAAAAGTGC 120  
 TTGTAAGAGA CTGTTTATNT TTAATNAAAA ATATAAGGCT TAAA 164
- (2) INFORMATION FOR SEQ ID NO: 2457:
- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 162  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02827
- (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2457:

GATCCAGAAT ATTTTGATTT AAAGCTCAAC CATTAAATTGG AACATGGTGA AACATTGTAC 60  
 ACATTGTAAA AGTAGGGAAC AGTACAAAAG AATGGAATCA AATACTATAT TATGTGAATA 120  
 ANCTAGAGTG ATTTTGGAAT TTCACTCTCT TCACCCCTTA AA 162

## (2) INFORMATION FOR SEQ ID NO: 2458:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 161  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02828

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2458:

GATCAAAAAC CTCTATAGTA GCCACTAGGG CAAAACTGT GTGTATGTGT GTGTGTAAAGT 60  
 GTGTGTACAC TGTTCATAT GGTTCATAT GGTACCAATA GCCACATGTG ACTATTTAAA 120  
 TTCATTGCAA TGNAATAAAA TTAAAGGTAT ACTAGCTCAA A 161

## (2) INFORMATION FOR SEQ ID NO: 2459:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 159  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02829

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2459:

GATCTTCACC TCTCTGCCTC CCTACTGCCC CAACATAGCC TTGAGGAGGN TTCTCAGCCA 60  
 CCAAAGGGTT CTGGCCCTT CTCCTCTCC TCTCCTCTCA GATGGAAGTC TGGTTATAAT 120  
 GGTGTTAGTT ATCGAATAAA AACGACTTCA GAATGCAAA 159

## (2) INFORMATION FOR SEQ ID NO: 2460:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 159  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02830

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2460:

GATCAATTTA AAATATTTNA TTTCTTAAAA GCCTTTTTTG CCTGTTGTAA TGTGCAGGAC 60  
 CCTTCTCCTT TCATGGGAGA GACAGGTAGT TACCTGAATA TAGGTTGAAA AGGTTATGTA 120  
 AAAAGAAATT ATAATAAAAG GGATACTTTG CTTTTCAA 159

## (2) INFORMATION FOR SEQ ID NO: 2461:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 158  
 (B) TYPE: nucleic acid

(C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02831  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2461:  
 GATCTATTTA ATTTGAGGTT GATGTTCTAT CCAATGGCCG AAGATAGCAG CAGGTTTTTT 60  
 TTTTCATATG TTGATTTGTT TCATTTGGAT TTTTTTTTTT TNATNCTTNA TTGTCTTTTT 120  
 TTTNCCCCAT CCCTGTCTTG NGATTTNCNG GCATGTTN 158

(2) INFORMATION FOR SEQ ID NO: 2462:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 256  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02832  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2462:  
 GATCTGAAAT GTGATGATTA TTGGAATGCA TAAACATTGA CGTATTTTGG AATGTATTAA 60  
 AACTGAAATG GATAAAAATT AGTATATATG TTTATTTTGT TCTATCTCCT TTGGTTGTAT 120  
 TTTTCTCTGC AGTATTAAAC ATTTGGAAGA GACTAAAGGT ATGCAAAANT AATGTCTTAT 180  
 TTTTCATTATG TGTGCTTCCA TTTGACACAT GGGAAATTAG ATTAATTTC AATTAAANTA 240  
 GNACTTTATA CAGAAA 256

(2) INFORMATION FOR SEQ ID NO: 2463:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 156  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02833  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2463:  
 GATCTTGTGT CTACTCTAGG ACTGGGCCCC AGGGTGGTTT ACCTGCACCG TTGACTCAGT 60  
 ATAGTTTAAA AATCTGCCAC CTGCACAGGT ATTTTGTAAA GCAAAATAAG GTTTTCTTTT 120  
 TTCCCCTTTC TTGTAATAAA TGATAAAATT CCGAAA 156

(2) INFORMATION FOR SEQ ID NO: 2464:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 156  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02834  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2464:

GATCTTCTCC TTTGTGAAGC ATCCCTCACC ACTACTACTG TGATGGGTCG GGGCCTTTCA 60  
 TCTGTTTTTC CACAGCATCT ATGCTTCTNT NCACTGTATC ATTTATCAAA TTGATNNTTN 120  
 CTGCGTCCTG TAAAAACAN NGAGTACCTT AAGAAA 156

(2) INFORMATION FOR SEQ ID NO: 2465:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 191
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02835

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2465:

GATCTGCATT TATCATGAGT TCCTTTTTTT TTTAACTTT ATTTTTGGGA AAGTAACACA 60  
 TGANGTAGTT CAGTCATGTC AGGTTTGTCT GGGGTGGANT GGACCAGTCA GGTAGTTGAA 120  
 AGTTTTTTTT TAGNGATGAA AAGCTTGTGA NCNCCTGTAA ANCATGCTGN ATTTGAAATN 180  
 CATCTGTTNA N 191

(2) INFORMATION FOR SEQ ID NO: 2466:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 155
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02836

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2466:

GATCCACCCC CTGCCCACAA AAAATTGCTC CTAATCCAC CGCCTATCCC AAACCTACAA 60  
 GAACTAATGA TAATCCACC ACCCTTTGCT GACTCTTTTT GGACTCAGCC CACCTGCACC 120  
 CAGGTGATTA AAAAGCTTTA TTGTTACAC ANAAA 155

(2) INFORMATION FOR SEQ ID NO: 2467:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 154
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02837

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2467:

GATCCTAGCA AATTTGCCCA ACCANCTTTA CTAAAGGGGG AGGAAGGGAG GGCAAAGGGA 60  
 TGAGAAGACA AGTTTCCCAG AAGTGCCTGG TTCTTTTTAC TTTCCCTTT GTTGTCGTTN 120  
 TTGTAGTTAA AGGAATTTAA TTTTAAAAA GAAA 154

(2) INFORMATION FOR SEQ ID NO: 2468:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 154
- (B) TYPE: nucleic acid

(C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02838  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2468:  
 GATCGGGCCT AGCCCGGCAA CACTAATGTA GAAACCTTTT TTTACAGAG CCTAATTAAT 60  
 AACTTAATGA CTGTNTACAT AGCAATGTGT GTGTATGTAT ATGTCTGTGA GCTATTAATG 120  
 TTATTAATTT TCATAAAAGC TGGAAAGCAG CAAA 154

(2) INFORMATION FOR SEQ ID NO: 2469:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 153  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02839  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2469:  
 GATCACCCGG GGCTGTCTGC ATACAGACTT CTCAGGGGAG TTCTCAGCTT GGACCCTTAT 60  
 CTCCCCAGAA TCCTGGAACC TGCTCCTTCT GCTCTCGTGA CTGACTGTGT TCTCTATGCA 120  
 ACTTCCAATA AAACCTCTTC ATTTGAAAGG AAA 153

(2) INFORMATION FOR SEQ ID NO: 2470:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 154  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02840  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2470:  
 GATCTTAAGC CCAGCTCTGT TCTGCCCCCG CTTTCCTCTG TTTGATACTA TAAATTTTCT 60  
 GGTTCCCTTG GATTTAGGGA TAGTGTCCTT CTCCATGTCC AGGAAACTTG TAACCACCCT 120  
 TTTCTAACAG CAATAAAGAG GTGTNCTTGT CAAA 154

(2) INFORMATION FOR SEQ ID NO: 2471:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 152  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02843  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2471:  
 GATCACAGGC CTGTGCTTTT TAACAATGAT GACCCCGGCC TGTCTCATAT TCTGAAGAGG 60  
 AAAAGTCAAA GTGTTGCTGN GGCTCCATAT TTCAACTAAA AATATATCTG TTGGAGAAAG 120

AAATTAACAA TAAAGAATTT TCATAGGTAA AA

152

## (2) INFORMATION FOR SEQ ID NO: 2472:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 151
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02844

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2472:

GATCGTATTC CCTGCTTTAA GGAAGTNTA GNCTTGTTTG GGTGATGAGA CAAAGTTCTT 60  
 GAGACATTTA AACTGTATTT ACCAGTGTGA AAAATGTCAT TTATGGAGAT TAATTCATTA 120  
 TGGAAATAAA ACATTGCCTA AGCCCTTGAA A 151

## (2) INFORMATION FOR SEQ ID NO: 2473:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 150
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02845

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2473:

GATCCAATCA GCTGTAAGTN TTAAGCACAG GGCTGAGGCT CCCTCCAAGT ACCCACTGGG 60  
 AACAGCAGCT TCAACCTGAG CCCTGNGTCC CAGCCAGCCC CCACAATCAC CTATGCCCAT 120  
 TCTTCAGAAT ACATTGGATG CATGTGCAAA 150

## (2) INFORMATION FOR SEQ ID NO: 2474:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 149
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02846

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2474:

GATCCAGAGA GTCTGAAGAC ATTTCTNATG CCTTTATATA TTGGAGAACC CTTCCCCATT 60  
 TTNATATCCT TTCTTCAAAA ATCTAAATNA TGTGCCTAAA AATAAGACAT GGCATAATAA 120  
 GGTATAATTA AAGAGATAAT AGAATGAAA 149

## (2) INFORMATION FOR SEQ ID NO: 2475:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 153
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02847  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2475:  
 GATCCAGTAC CTGAAAGATT TGATAGAAGA GGTCCGCAAG GCAAGGGGGA AGAAAAGGGT 60  
 CCCCTAGTTG AGGATAGTCA GGAGCGTCAA TGTGCTTGTA CATAGAGTGC TGTAGCTGTG 120  
 TGTTC AATA AATTATTTTG TAGGGAAAGT AAA 153

(2) INFORMATION FOR SEQ ID NO: 2476:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 147  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02848  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2476:  
 GATCCTTTTG GAGTCAGACA GATGTGGTTG CATCCTAACT CCATGTCTCT GAGCATTAGA 60  
 TTTCTCATTG GCCAATAATA ATACCTCCCT TAGAAGTTTG TTGTGAGGAT TAAATAATGT 120  
 AAATAAAGAA CTAGCATAAC ACTCAAA 147

(2) INFORMATION FOR SEQ ID NO: 2477:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 207  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02849  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2477:  
 GATCTCCAGT GATTGGCGAT TTGACCTGGT TTCTNCCTGG ACTATTTGAA TGGGTGGATT 60  
 TGTTGGTGCA TCTCTTGTCT TCTTTCCTTT TCCATTCTCC TNTATTNTTN TATTTACATA 120  
 CTTGTATGCA ACTNTGTAAT CTGATTNCCC CATGTAACAT TNTAATTTGA NGGGTGGTCT 180  
 GCGTGTNCAC TGGAAAACAT ATNTATN 207

(2) INFORMATION FOR SEQ ID NO: 2478:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 146  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02850  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2478:  
 GATCGAGCTC ACAGGGGGCA CCCATCCTGN TAGTCAACAG AGTCTGAAGC AGTCAGGGTG 60  
 TTGGATTCTT CTGTTGTTGT CATCAATTCC TGCTGAGGGG TTTCTGGGGT TTTGTTTTTA 120  
 ATAAATAACT CCTTTGTAGC CTTAAA 146



## (2) INFORMATION FOR SEQ ID NO: 2479:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 144
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02851

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2479:

```
GATCCCGGCC AGCCAGGTGA CCCCCACGCT CTGGATGTCT CTGCTCTGTT CCTTCCCCGA 60
GCCCTGCCC CGGCTCCCCG CCAAAGCACC CCTGCCCACT CGGGCTTCAT CCTGCACAAT 120
AAACTCCGGA AGCAAGTCAG TAAA 144
```

## (2) INFORMATION FOR SEQ ID NO: 2480:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 143
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02852

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2480:

```
GATCCAGGCA AATTCATGTT CTTTCTTTGT AACTCACTTT CTTGTCACAC ATTTCTGTGA 60
CTCAATGGAT AGCATATTTT CATCAAGTAG CACGTATAAC GTGATGCTTT CATGTTTCTG 120
CCTTAAATAA AATAACCCTC AAA 143
```

## (2) INFORMATION FOR SEQ ID NO: 2481:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 290
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02853

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2481:

```
GATCTCTTTG ACTGCTGTAG TACTAAAGTG TACTTAATGT TACTANGTTN AATGCCTGGC 60
CATTTTCCAT TTATATATAT TTTTAAAGAG GCTAGAGTGC TTTTAGCCTT TTTTAAAAAC 120
TCCATTTATA TTACATTTGT AACCATGATA CTTTAATCAG AAGCTTAGCC TTGAAATTGT 180
GAACTCTTGG AAATGTTATT AGTGAAGTTC GCAACTAAAC TAAACCTGTA AAATTATGAT 240
GATTGTATTC AAAAGNTTAA TGAAAANTAN ACATTTCTGT CCCCCTGAAA 290
```

## (2) INFORMATION FOR SEQ ID NO: 2482:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 143
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02854  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2482:  
 GATCTGATTG AGATGTACAT AGTTTTTTTT TTTACCATAA CTGAATTATT TNATCTCTTA 60  
 TGTTAACATG AGAAATGTAT GCCAAATNAT TAGTTGATGT ATGTTTTTNA ATTTAATATT 120  
 TAAATAAAAT ATTTGGAAGG AAA 143

(2) INFORMATION FOR SEQ ID NO: 2483:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 269  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02855  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2483:  
 GATCCTTATC AGGGAGAGCA GGAATCCTTA TTCCCGGTGT CGCTAGTACT CATCTCTGCC 60  
 GCCTCCTGTC TGCCCCCAGG CTGCTGCTNC TGCTGCCCTG TGGGTTGTGC CAAGTGTGCC 120  
 CAGGGCTGCA TCTGCAAAGG GGCGTCGGAC AAGTGCAGCT GCTGCGCCTG ATGCTGGGAC 180  
 AGCNCGCTCC NAGATGTAAA GAACGCGACT TCCACAAACC TGGNNTTNNT TATGANCAAC 240  
 CCTGACNGTN ACCGTTTGCN ATATTNCNN 269

(2) INFORMATION FOR SEQ ID NO: 2484:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 140  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02856  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2484:  
 GATCATACAT TTTATATGGT TGGGACTTCT CTCTTCGGGA GATGATATCT TGTTTAAGGA 60  
 GACCTCTTTT CAGTTCATCA AGTTCATCAG ATATTGAGT GCCCACTCTG TGCCCAAATA 120  
 AATATGAGCT GGGGATTAAA 140

(2) INFORMATION FOR SEQ ID NO: 2485:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 139  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02857  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2485:  
 GATCCAACCC CACCCTCCTG GGTGCGGCCA GAGGCAAGGC AGTCGCCCGA GCTCCTGAAT 60  
 CCAAGAATG GTTCTGGCAA GTACTGCTGT TTGTTTGTAG GGGCAAAGAG TTAAAATAAA 120  
 ACGAGGTTCT GCCATGAAA 139

## (2) INFORMATION FOR SEQ ID NO: 2486:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 139
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02858

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2486:

```
GATCTGCCGG CTCCCGTCCA GCCTGTGTGG AAAGGAGGCC CACGGGCACT AGGGANNCNG 60
AATTCTACAA TCCCGCTGGG GCGGCCGGGT CGGGAGAGAA AGGTGGTGCT NCAGTNGTGN 120
CCCTGGGGGG TCATTTCGAN 139
```

## (2) INFORMATION FOR SEQ ID NO: 2487:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 138
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02859

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2487:

```
GATCTTCAAT GCCTCTGAGT CATTGTTATA AAAAATCAGT TATCACTATA CCATGCTATA 60
GGAGACTGGG CAAAACCTGT ACAATGACAA CCCTGGAAGT TGCTTTTTTTT AAAAAAATAA 120
TAAATTTCTT AAATCAAA 138
```

## (2) INFORMATION FOR SEQ ID NO: 2488:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 231
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02860

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2488:

```
GATCATGGTT CTCTTTGTAC GATAGTTGGG CATCTGTATT TCCACTTGTG TGAATTTGCC 60
TTTAAATTTT GGTATGGGT TTCACCTTTT AAAATAATCA AACATATTTA TCTTTTCCTG 120
TGTGATAGGT TTTTNCCTGT ATCTTTTCCT GTTAAACACA CAGACCCCTC CCAATCTGG 180
ACATTGAATA CNTATTCATT TTCCTTTGCN NNAATANNCC NNANACANAC N 231
```

## (2) INFORMATION FOR SEQ ID NO: 2489:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 137
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02861  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2489:  
 GATCTGCCCC TGCATTGTAG CTTGCTTAAC GGAGCACTTC TCCTTTTTC AAAGGTCTAC 60  
 ATTCTAGGGT GTGGGCTGAG TTCTTCTGTA AAGAGATGAA CGCAATGCCA ATAAAATTGA 120  
 ACAAGAACAA TGATAAA 137

(2) INFORMATION FOR SEQ ID NO: 2490:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 135  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02862  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2490:  
 GATCTTTTAA TTTTGAGACA GTATAAGGAA AATCTGGTTG GTGTCTTACA AGTGAGCTGA 60  
 CACCATTTTT TATTCTGTGT ATTTAGAATG AAGTCTTGAA AAAAAGTTTA TAAAGACATC 120  
 TTTAATCATT CCAA 135

(2) INFORMATION FOR SEQ ID NO: 2491:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 286  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02863  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2491:  
 GATCCAAATA TTTTCAAGCC ATGTAATCCA TTGGTTTTGT GGGCAGTTTA ATAAACCTGA 60  
 ACCTTTGTGT GTTTTCTAAT TGTACCTGAG TTGACCATCC TTTCTTTTTA NAGTATATTT 120  
 CTNGTATGAT ATNTGTAAA GCTCTCACCT GGTTCTTTTA TGGGGACTTT TCGTTTTTGG 180  
 GCAACTGCAG TGTATTTATG TGAANCTTTA TANGAGAATT ANTTTTTCCA TGTGCATATT 240  
 AATATGGTNC CTCCACACAT GGNNAGGGCA CAGTGGCTTC GTGTTN 286

(2) INFORMATION FOR SEQ ID NO: 2492:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 135  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02864  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2492:  
 GATCATGCCT CTTTCCAACA CGTGTTTACA ATCTCCAAAG GGACTGTATT TNTNCTCTGT 60  
 GCTTAATNTG ATTTGAAATA TGTTGAATCA AAGTGAAATA TTTATNTTTT GAATAAAGGA 120  
 GATAATAGCC TTAAA 135

## (2) INFORMATION FOR SEQ ID NO: 2493:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 135
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02865

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2493:

GATCGAAAAC AAACGNTAGA TAATNCCCAA GGAGCTTACC AAGAGGCATT TNATATAAGC 60  
 AAGAAAGAGA TGCAACCCAC ACACCCAATC CGCCTGGGGN TTGCTCTTAA CTTTCCNGTA 120  
 TTTNACTATG AGATN 135

## (2) INFORMATION FOR SEQ ID NO: 2494:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 135
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02866

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2494:

GATCATGCCA CTNCACTCAC ACTGACACTG CCTCGGACAA CAGAGCAANA CTNCATCTCA 60  
 AAAACAAACA AAAAAAATCA CAGNCTCATT TTAAAGGAGC AGCAACCNA CCAAATACAA 120  
 NCTTCATTG ACAAN 135

## (2) INFORMATION FOR SEQ ID NO: 2495:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 134
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02867

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2495:

GATCATTAC ATGCCAGGGC AGTTCCCACT GATTAGATG GTCCAAGATA ATCTCATTCA 60  
 GGAGGCTTGA AACATTAATG GTTTAGTCTT GTGAATTTA ACAGTTCTCT GTCATCGTTT 120  
 AACAAAACCA ACAN 134

## (2) INFORMATION FOR SEQ ID NO: 2496:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 134
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02868

- (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2496:  
 GATCATGCCA CTGGACTCTG TGCTGAGCAA CAGAGTTAGA CCCTGTCTCT AAATAAATAA 60  
 ATAAACAAAT AAACAGTAAA AAAATGTATA GTTCAATCCT TATCTGTATT AACTTCCTT 120  
 TAACTTGTGT GAAA 134
- (2) INFORMATION FOR SEQ ID NO: 2497:
- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 133  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02869
- (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2497:  
 GATCACATGT GGGCCCGTGT CTGGCCGCCG CCGCCNGCC CCGTCCCTGC GGNCACCACC 60  
 TAATTTATTG CCGTGCCTCC TGCTGCTGTG ACTGCTTTTG TACCTTTGCA ATAAAGAATT 120  
 TTCTGGTTTC AAA 133
- (2) INFORMATION FOR SEQ ID NO: 2498:
- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 132  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02870
- (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2498:  
 GATCCTGGAC ATATTTTATA TTTATACCAA ATATTTTATA TATTNCTAC TGTTGTCAAT 60  
 GGTAGTGGTT TTAAATTTT CAAACATTCA TTACTAGTAT ATAGAAATAN AATCACTTTT 120  
 TAAAAATGTA AA 132
- (2) INFORMATION FOR SEQ ID NO: 2499:
- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 131  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02872
- (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2499:  
 GATCCTGTTT TTTCTTAACA AGTTGAGGCG TGGGTAGAGC AGGAATTGGT TTTCCAGCAT 60  
 TGTGTCCGTA AACCTGAGTT AGAATAAGAT GTAACGGAAG CCACGATAAA GACTCGGTCA 120  
 AATCCTGCAA A 131
- (2) INFORMATION FOR SEQ ID NO: 2500:
- (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 133
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS02873
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2500:

```
GATCCTGGAT GGAAGTGGCT TCTTTATCGA GAAGAATATA ATTCTCCATG AGGACTTAAT 60
GAATCCAAAC CTGTGTCATG CCTGGTTTGC ATACCCAATT AAACACTNGA AATAAAAATT 120
NTTNGGGTNN AAA 133
```

(2) INFORMATION FOR SEQ ID NO: 2501:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 130
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS02874
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2501:

```
GATCTCTGCT CTTTGTGAGA GATTGCAAA GACTCACGTT TTTNTTGTTT TCTCATCATT 60
CCATTGTGAT ACTAAGAAAC TAAGAAGCTT AATGAAAAGA AATAAAATGC CTATGTTGTT 120
GTTCTAGAAA 130
```

(2) INFORMATION FOR SEQ ID NO: 2502:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 130
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS02875
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2502:

```
GATCAAAAAA GGCAGATGNA ANTACTTAAN ACTCAGTGTT TTGGAGAGAT TTCCTTTNAG 60
TTTGTTGGTT GGCTGGTTTG AACGATAGAA ATATGCAGCA TGCAATATAT GCTTATATTT 120
NATTTNAATN 130
```

(2) INFORMATION FOR SEQ ID NO: 2503:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 129
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS02876
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2503:

GATCCCCCAC CTGGCAGAGG ACCCAGTACA AAATAGGCAC TCAATAGATG TTACACCAAC 60  
 TTTGGAAGGG CAAACAATATT TCTTAATGAG AGGCAGTCCT TCATGTTTTN CAATAAAATG 120  
 ACTTTTAAA 129

(2) INFORMATION FOR SEQ ID NO: 2504:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 129
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02877

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2504:

GATCTTCTCC GAGGCCACC GAAGGTACTG AAGAGCCTCA CCTGGGGGCA TTTTGTGGGT 60  
 GGAGGGCCAG AGTGTGTATA CCCAGGCTTG TCTGGAAGGA GAAGGCCTTT GCTGCCTGAA 120  
 AGTCTCAA 129

(2) INFORMATION FOR SEQ ID NO: 2505:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 129
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02878

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2505:

GATCTAAATA AGTGTTCCTAA GGAAAGTTTT CCTAAGCAAA TGTAATATTA CCTCATTTGG 60  
 GCATCATTAAC TCTGTTAATT CTATATCAAA GGAAATAAAC TTGCTACTTG CACTAAATGA 120  
 AAAAACAA 129

(2) INFORMATION FOR SEQ ID NO: 2506:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 128
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02879

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2506:

GATCGTGCCC CGGGGCGCCG GCCCCTGNAG GGGCTCACCT GGATGGGGCC TGCAGTGCCT 60  
 TCCCGCTTTG CTTCTTTCCC TGGACGGCCC GCTCCNGAA ACGCGCGCAA TAAAGTGATT 120  
 CGCAGAAA 128

(2) INFORMATION FOR SEQ ID NO: 2507:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 127
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single



(D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02880  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2507:  
 GATCACTCTT GTGGTTTTGG GGGATGGCAT TATAAGAGAG GAGACTGGAN ACAGGGGGGC 60  
 TATTGTNATG CAGATTTGTT GGATGTCCAC CCAGCATTCA CTTTNNCCAT CTTTGGCCAG 120  
 GGGNNNN 127

(2) INFORMATION FOR SEQ ID NO: 2508:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 128  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02881  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2508:  
 GATCCCACGC AGCGCTGAAC CGAACCGAGT AGGAAGCCTT TCTCCCCANG GCACGTGGCT 60  
 TCAGGGCGTT TCCATTGAC CAAGTTTGAC CCTGNTTTGA ATAAAGAGAA GTGCGTTTGG 120  
 ATTAGAAA 128

(2) INFORMATION FOR SEQ ID NO: 2509:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 129  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02882  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2509:  
 GATCGAGCTT CTCCTCTGAG TTCTAACAAA ATGGTGCTTT GAGGGTCAGC CNTTAGGAAG 60  
 GTGCAGCTTT GTTGTCTTTT GAGCTTTCTG TTATGTGCCT ATCCTAATAA ACTCTTAAAC 120  
 ACATTGAAA 129

(2) INFORMATION FOR SEQ ID NO: 2510:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 125  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02883  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2510:  
 GATCTCTGAT TTAACCGTGT ACTATCCACA TGCATTACAA ACATTTGCA GAGCTGCTTA 60  
 GTATATAAGC GTACAATGTA TGTAATAACC ATCTCATATT TAATTAAATG GTATAGAAGA 120  
 AAAAA 125

## (2) INFORMATION FOR SEQ ID NO: 2511:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 124
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02884

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2511:

GATCTTCCAT CTCCTCAGCA AAAAAATAGG AGCCCTGGCC CCCCAACTTT TTNCANAGTA 60  
 ATAGCCTTAN TTCCTTCCCT ATCTCCTTAC CAAAGTACAN GTNACATCTT TCCCACCTTT 120  
 CNTN 124

## (2) INFORMATION FOR SEQ ID NO: 2512:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 124
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02885

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2512:

GATCTACAGA TTCAATGCAA TTNCTATTAA AATCTNATCT GGCTTTTTTT GCATAAGCAA 60  
 CAAAGGAAAA ANTAAGACAT CAAAATTNA AGANCTTTTG TCCTACAAAC AATATCATGA 120  
 NGAN 124

## (2) INFORMATION FOR SEQ ID NO: 2513:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 343
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02886

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2513:

GATCAGAAAA TTCATATTTA AGCAAAGTGA TACAAACACA GTGATTTGGG AATGCCTTCA 60  
 TTTACAATGC AATACTTAAA TTTTAATACT CTTGTAGGAG AAAAAGCAAC TGTATAAATG 120  
 AATGTAGAGT GACTTTCTGC AATATTTCAA ACCTATATCA GAGAATTACA CTGTGGGAAA 180  
 NCTACCATTG TAATAAGTGT AGCAAAATCT CCTTAGATAT CTGAAAAGTC ATACTGGATG 240  
 GAATCTGTAG GAAACGGTTC TATTTTGAGG GAAGGGGGAT TCCTTTTTGT TTTTAAAGTG 300  
 AATTCAGAAA ATGTTATAAA TAANTCTTTT GGTATTATTAT AAA 343

## (2) INFORMATION FOR SEQ ID NO: 2514:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 123
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single

(D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02887  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2514:  
 GATCTNTACC CCACCCCTAT CTAACACCAC CCTTGGNTCC CACTCCAGCT CCCTGTATTG 60  
 ATATAACCTG TNAGGCTGGC TTGGTTAGGT TTNACTGGGG CAGAGGATAG GGAATCTNTN 120  
 ATN 123

(2) INFORMATION FOR SEQ ID NO: 2515:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 121  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02888  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2515:  
 GATCCAAAT TACCTTCCTA TTGCATTTCC TACTCCTTTG CTACGNGTAT TGGACCTCTG 60  
 GCCAAATNAC AAAAGATGTA CTCTTTGTNC TCTAAAACCA CACTAAAGTT TTCTNACTNN 120  
 N 121

(2) INFORMATION FOR SEQ ID NO: 2516:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 122  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02889  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2516:  
 GATCAACCAA CCTTAAATAT ATGTATGTAT ATATGTATAT GTGAAAAACA GTTTGTATAG 60  
 TTGGAATATT TGTNTTTGTA ATTACTTGTG ATGTTTTTAAA ATAAAANTTT TATTCAGTTA 120  
 AA 122

(2) INFORMATION FOR SEQ ID NO: 2517:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 122  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02890  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2517:  
 GATCTGGCAC CCCCTGGGTG GAGTGTCCCT CGGGGGCTTT GGGAAAGCAT GGCACCCTCA 60  
 GACCACACAG TAGCCAAGTT CTGGAGCAAA TAAAAGGCCT GTGTTATNTC TTGTNCTTGA 120  
 AA 122

## (2) INFORMATION FOR SEQ ID NO: 2518:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 119
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02891

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2518:

GATCTCAAAG ATATGCACCA GTTTGAATAA ATGCTTGTTT AAAGATTAAA TTTTACAATT 60  
 CATTTTAAAT TNTCATTTTG TGACAATATT TCTAAACAAC GNCCATTTTA ATNACCAAA 119

## (2) INFORMATION FOR SEQ ID NO: 2519:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 118
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02893

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2519:

GATCATAGGA TAGCTGACTT TGACAGTCAC ATTTATAAAG TAATTCACCT AAAGATATAT 60  
 ATTTTTTTCA AACAAGTTTT GCTACTTTTG AAAATAAATC TTTCTTTATA TTGCTAAA 118

## (2) INFORMATION FOR SEQ ID NO: 2520:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 118
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02894

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2520:

GATCCAAACC CATCTTCCTG GACCTGAAGC TTATGCTTCC AGGCACCCCA CTCCTGAGCT 60  
 GAATAAAGAT GATTAAAGCT TAATAAATCG TGAATGTGTT CACATGAGTT TCCATAAA 118

## (2) INFORMATION FOR SEQ ID NO: 2521:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 118
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02895

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2521:

GATCTGCACA GTGTTATGGC ACCCTACTTC CTGCAGCAAC GGGACACNCT GCGGCGCCAT 60  
 GTNCAGAAAC AGGAGGCCGA GANCCAGCAG CTGGCAGATG CCGTCCTNNC AGGGCGGN 118

(2) INFORMATION FOR SEQ ID NO: 2522:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 118  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02896

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2522:

GATCCTATCT TTNCTGGCAG GACTGGNAGC CATGGTGGGC TACGTTNTGN TCAGCGGCAT 60  
 TTTTCCATC CAGCGGGCAA CGCTGCTCGG GCCCCAGGCA CCCGACCCT GGCATGN 118

(2) INFORMATION FOR SEQ ID NO: 2523:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 117  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02897

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2523:

GATCTAGTCC GGACTTGCTG TGTATATTGT AACGTTAAAT GAAAAAGAA CCCCCCTTTG 60  
 TATTATAGTC ATGCGGTCTT ATGTATGATN AACAGTTGAA TAATTTGTCC TCAGAAA 117

(2) INFORMATION FOR SEQ ID NO: 2524:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 116  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02898

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2524:

GATCGTNATT NAGAATCCAT GTGAATAGAC CTGCGATGGC CAAGGCTGTT TAAGCNACAC 60  
 TGGGTTGGAA ACACTTGGGC TCTCTCATNA TTATTAAAAT TCTATTTCAA TCTAAA 116

(2) INFORMATION FOR SEQ ID NO: 2525:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 116  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02899

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2525:

GATCCTTTGTC NTTCAAGACT AAGTTAATAG AGAAGATGTT TGTAACNTG GCCCAAGCTT 60  
GGNCTCCAG TGTATTGAAG CTAACCTCTT TNAGAAGCAC CACTCTCATA TATNAN 116

(2) INFORMATION FOR SEQ ID NO: 2526:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 117  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02900

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2526:

GATCTCTGGG TAAAGAGGCC GTTTATCTTT GTAAACACGA AACATTTTTC CTTTCTCCAG 60  
TTTTCTGTTA ATGGCGAAAG AATGGAAGCG AATAAAGTTT TACTGATTTT TGAGAAA 117

(2) INFORMATION FOR SEQ ID NO: 2527:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 119  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02901

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2527:

GATCTAGGAA GACTTTGGAA AGAGTAGGAA GACTTTGGAA AGACTTTTCC AACCCTCATC 60  
ACCAACGTCT GTGCCATTTT NTATTTTACT AATAAAATTT AAAAGTNTTG TGAATCAAA 119

(2) INFORMATION FOR SEQ ID NO: 2528:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 115  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02902

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2528:

GATCCCCAGG AGGCCTGGNC CGCCCAGAGG CTCCTCTCAG GCTGGGCCCC GACGTTTGCG 60  
NCAGTGTTCC TTGTGCCCGT GGGGCCGGGA GCNAGTAAAG TCTGGGCCAG GCAAA 115

(2) INFORMATION FOR SEQ ID NO: 2529:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 119  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02903
- (ix) FEATURE:
- (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2529:
- GATCACGTTT CAGGGTCCTC CAAAANGCTA GCCCGGCACT ACAC TAGGGA ATTCNCCCCT 60
- CTCCTGTCAC TTGTCATGGT CTCCTTGGT ATTAAAGGCC ACCATTGCA CAAAACAA 119
- (2) INFORMATION FOR SEQ ID NO: 2530:
- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 114
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
- (B) CLONE: HUMGS02904
- (ix) FEATURE:
- (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2530:
- GATCCCAGAA ATGTAGCTTG TTCATATTT TAGTCTTCTT ATTTTGTAA AATGTGTAGA 60
- ATTTGCTGTT TTTNTTTTTC TTTTGACAAC TCAGGAAGAA ACTGACCTCA GAAA 114
- (2) INFORMATION FOR SEQ ID NO: 2531:
- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 119
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
- (B) CLONE: HUMGS02905
- (ix) FEATURE:
- (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2531:
- GATCAGCCCC CAAAGAAATG GGGGTGCATG CTGGGCCTGG CCCCTGGCC CACCCCCACT 60
- TTCCAGGGCA AAAAGGGCCC AGGGTTATAA TAAGTAAATA ACTTGTTNTGT ACAGCCAA 119
- (2) INFORMATION FOR SEQ ID NO: 2532:
- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 113
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
- (B) CLONE: HUMGS02906
- (ix) FEATURE:
- (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2532:
- GATCTTGGCT TCTCAACAGG GCAAAGATAC CAGGCCTNCT GCTGAGGTCA CTGCCACTTC 60
- TCACATNCTG CTTAAGGGAG CACAAATAAA GGTATTCGAT TTTTAAAGAT AAA 113
- (2) INFORMATION FOR SEQ ID NO: 2533:
- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 348
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single

(D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02907  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2533:  
 GATCAAAATG TTTGAAGAAA GGAAC TTTAT TTTTGCAAGT TACGTACAGT TTTTATGCTT 60  
 GAGATATTTT AACATGTTAT GTATATTGGA ACTTCTACAG CTTGATGCCT CCTGCTTTTA 120  
 TAGCAGTTTA TGGGGAGCAC TTGAAAGAGC GTGTGTACAT GTATTTTTTT TCTAGGCAAA 180  
 CATTGAATGC AAACGTGTAT TTTT TTAATA TAAATATATA ACTGTCCTTT TCATCCCATG 240  
 TTGCCGCTAA GTGATATTTT ATATGTGTGG TTATACTCAT AATAATGGGC CTTGTAAGTC 300  
 TTTTCACCAT TCATGAATAA TANTANATAT GTACTGCTGG CATGNAAA 348

(2) INFORMATION FOR SEQ ID NO: 2534:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 111  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02908  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2534:  
 GATCTGATGG TTTTAAAAT GGGAGCTTCC CTNCACAGAC TCTNTCTCTC GTGCCGCTGC 60  
 CATGGCCATG TAAGNAGTGC CTTTNACCTT CCCCCGTGAT TGTNAGGCCT N 111

(2) INFORMATION FOR SEQ ID NO: 2535:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 110  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02909  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2535:  
 GATCCCAACA GGACAAATCT GTGTACCTAT CTTTCTATCC TCCCTGAGCC TGTACCAACT 60  
 AGATTCTTCA TATGTATTTG TAACAGATTA AATTGGAAAG CAAACACAAA 110

(2) INFORMATION FOR SEQ ID NO: 2536:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 110  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02910  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2536:  
 GATCCCCAAC TGCTCCAGCC TCTGCCAAC TGAATCTTCA GCATGTTCTC ATCGGCGGAC 60  
 TNTCTTGTGT AATGTAAACT GTGCCATGTT ATTAAAAAAT GTGAACTAAA 110



## (2) INFORMATION FOR SEQ ID NO: 2537:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 110
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02911

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2537:

GATCTGTTTG GAAAACATAG ATTGTTTTTC CCTCAAATAA GGGGAAAAAA AAANACCCTT 60  
 TNTNCAAATN GNTTCTTTTG TAAAAAATTA TTTTAAAAGG AAATCACAAAN 110

## (2) INFORMATION FOR SEQ ID NO: 2538:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 109
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02912

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2538:

GATCTTTTTA ACTCTACTGT GTCATTAAGA TGCTTTGTAC AATGCCAAAC CATAGTTGGA 60  
 GAAACTAAGT TTAATAAATA TCAAATAGAT TTTCTGTATT AAAGTTAAA 109

## (2) INFORMATION FOR SEQ ID NO: 2539:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 109
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02913

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2539:

GATCTCCCCC ACCCTTGGAT TAGAGTTCCT GCTCTACCTT ACCCACAGAT AACACATGTT 60  
 GTTCTACTT GTAAATGTAA AGTNTTTAAA ATAACTATT ACAGATAAA 109

## (2) INFORMATION FOR SEQ ID NO: 2540:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 109
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02914

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2540:

GATCTCCTNT CCCTCACTCA GTGCACGGGA CAGCTNCTCC TCCGTCACAG CTTTGGNATG 60  
 AAAGACAGAA GACAGCATGA TTGGCCTCAC CCACGTGCAG GNCAAATNN 109

(2) INFORMATION FOR SEQ ID NO: 2541:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 107  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02915

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2541:

GATCTGTCAC TCAACTTGCT GCGTNACCTG AACACGTCAC TTTACCTCTC TGTGCCTCAG 60  
 TTTTCCCATG CATGAAAAAT AAAATAAAAT AAAACGGGGA TTCTAAA 107

(2) INFORMATION FOR SEQ ID NO: 2542:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 112  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02916

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2542:

GATCAGTAAG GATTTCACCT CTGTTTGTA CTAAACCAT CTACTATATG TTAGACATGA 60  
 CATTCTTTTT CTCTCCTTCC TGAAAAATAA AGTGTGGGAA GAGACAAATA AA 112

(2) INFORMATION FOR SEQ ID NO: 2543:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 109  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02917

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2543:

GATCATAGAA GGTTGGGGTT CCAGAAAGGC ATCTGTGTGA TGGTTCCATT GATGTGGGAT 60  
 TTCCCTACTT GCTGTATTCT CAGTTTCTAA TAAAAAGAAC CAAATNAAA 109

(2) INFORMATION FOR SEQ ID NO: 2544:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 108  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02919

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2544:

GATCCAGGAG ATANTTTTTT CATTATCCT GACCAAGACT GAGCCAGCTT AGCAACTNCT 60  
GGGGAGACAA ATNTNAGAAC CTTGTCCAG CCAGTNAGGA TGACAGTN 108

(2) INFORMATION FOR SEQ ID NO: 2545:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 343  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02920

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2545:

GATCGAGCCC AGCGTACAAC TTCCTCAAGT CGCCCAAAGA CAACGTGGAC GACCCACGG 60  
GGAAC TTCCG CAGCGGGCCC CTGACGGGGT GGC GG GTGTT CCTGCTGCNN NNGTGCGCTC 120  
TCCTGGGCAT CGTTGTCTGC GCCGTGGTGG GGGCCGTGGT GTTCCAGAAG CGGCAGGAGC 180  
GGAACAAGCG CTTCTACTGA GTGGCGCCTC CGGCGGTGGC CTGTCCCTGG GCCCAGGAGC 240  
CAATGTGAAC TTTTTTGGNT ACCGGGATTA TAAANGAACA ACAAGATGAC CTTATTTCTT 300  
AACTGTTTCA AATAAAATGA TTAAAAGTAT TTTCAAAAAA AGN 343

(2) INFORMATION FOR SEQ ID NO: 2546:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 107  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02921

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2546:

GATCCTGCCG TGCCCCATC CTGGCTGTTG GGGGTGTCCT GAGCCACCT NNNTNCGCCT 60  
GTTCCCTTCA GCCAACCCGT TTCTGCAGTA AATTAAGCC TGTCAA 107

(2) INFORMATION FOR SEQ ID NO: 2547:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 105  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02922

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2547:

GATCACTGAA CCAGACACAG CATTGCTGAC ACATGAGACT AACACGTGCA ATTATTTAAA 60  
AAGATTTCAA TAAAACTNCC TGGCTGGCTC CGGGCCGCC CTAAA 105

(2) INFORMATION FOR SEQ ID NO: 2548:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 103

(B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02923  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2548:  
 GATCCTGTGG GTTTAGTATC ATTATCTTCA GCTCTTTGAT ACNCTGTGTT AGAGTAATAG 60  
 CTAAAGGAAG TTCATGTCAA TAAATTCATA CTTATATCAC AAA 103

(2) INFORMATION FOR SEQ ID NO: 2549:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 104  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02924  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2549:  
 GATCCAGAGC TGGGGTGGAA GGAGAGCCAT TCTGAACGNC ACGNCTGGCC CGGTCAGTGC 60  
 TGCATGCACT GCATATNAAA TAAAATCTGC TACACGCCAG GAAA 104

(2) INFORMATION FOR SEQ ID NO: 2550:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 103  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02925  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2550:  
 GATCCCNAGG CTCTGTTCCA TGAGCCTGTT GCANGTTTTG GTACTTTAGA AATGTAAC TT 60  
 TTTGCTCTTA TAATTTTATT TTATTAAATT AAATTACTGC AAA 103

(2) INFORMATION FOR SEQ ID NO: 2551:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 102  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02926  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2551:  
 GATCGATGAG GCAGGTCAGT TGTAAGTGAG TCACATTGTA GCATTAAATT CTAGTATTTT 60  
 TGTAGTTTGA AACAGTAACT TAATAAAGA GCAAAGCTA AA 102

(2) INFORMATION FOR SEQ ID NO: 2552:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 102  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02927  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2552:  
 GATCATATCT AGTNTTNAAG TCTCTAGGAA CAATAGAGAT TATATCATAA CTCTGAAGAT 60  
 GGACTCTAAA CTTTGGTTTA CCTCCATGGA AAATAANCGN NN 102

(2) INFORMATION FOR SEQ ID NO: 2553:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 101  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02928  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2553:  
 GATCGAATGA GGGTTAAATG AATTATTTCA TGTAAGCTC TTAGCCCTGT GCCTGGTACA 60  
 TAGTAAATNC TAAATAAATA GTGGTATTCT TACTGTTTAA A 101

(2) INFORMATION FOR SEQ ID NO: 2554:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 390  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02929  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2554:  
 GATCCAGCTT ATTCTTTTAT TTTCAGTCC ATTCTTGGGG CTGGTGGGGA GGCAGGAGAA 60  
 TACCCCTCCC TAAGCCCTTA GTGTGTGCCG AGCTTGCTTT NTGATGTTGG CAGGGGAGGG 120  
 GAGACCTGGG TGGTGNCTGA GTTCCCTTTA TCAAACCTT CAATGGGCAC AAAATTGAGT 180  
 GCTTNNTTNN TAGGTTTTAT TTNNNNATGA ATGTCCAAAT CTGTGTTTCC CCCTGCCANA 240  
 ACAGACTGTG TGGCCAGTTG AAAGTGTCTT GGTGTGTGGT TCATCTCTCC CTCATTTTCT 300  
 TGGAGGCAGG GCCTGAGANC CCTGNCANAA TCTCCTATGG TTNTGAATCC ACGGCTTCTT 360  
 TTTGGACATT AAAGGTTGAT TTGATGCAAA 390

(2) INFORMATION FOR SEQ ID NO: 2555:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 227  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02930

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2555:

GATCTATCCT CAGCACTGCT GAGTGTGCAG TCACACTTTC CTACCAACCC NCTTCTTACC 60  
 ATCTCTAGCT GCCATTTGTG GGGGGAACAA AACAAGGGAA TCCTGATTGT GTACAGTATA 120  
 AATTGTATTA TATTTTTTGT ACTTATGTTT TATGTAAATA GTTTGTCTCA TTCAATTGTA 180  
 TGTGAGCATT GAAATAAATC CTACCATTTA GGGGAAAAAA ATNNAAA 227

## (2) INFORMATION FOR SEQ ID NO: 2556:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 106  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02931

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2556:

GATCTTCAAA AATAATGCCT CTGTCTAGCA TGCCAACAAG AATGCATTGA TATTGTGAAC 60  
 ATTTGTGATA TATGTATTAA TAAATAGAGC AATTACAAGC AGCAAA 106

## (2) INFORMATION FOR SEQ ID NO: 2557:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 99  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02932

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2557:

GATCTTTCTT ACACAGTGAT TCATTCTCTT ATTTGTACAG TGGCTTTATG AAATATTGTG 60  
 AATTGATACT GTAATCAATA AAGTGCTTTT AACCAGAAA 99

## (2) INFORMATION FOR SEQ ID NO: 2558:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 98  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02933

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2558:

GATCCTGGTT CCCTGTTTGG AAAATTCACC ACCTCTAGCT CCTCACTGTT CTTTGTAAAT 60  
 AACACGCTGT TGTAATCTT ATTAATTATT TAACCAAA 98

## (2) INFORMATION FOR SEQ ID NO: 2559:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 97  
 (B) TYPE: nucleic acid

(C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02934  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2559:  
 GATCTGGGGA CCCTGACTGC ACAGAACAGT GGGCGCNTTA CAGACCACCG ACCGCCCCGAG 60  
 GGTGAATTAC ATCTTAATAA AGCTACTGTG AGAGAAA 97

(2) INFORMATION FOR SEQ ID NO: 2560:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 93  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02935  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2560:  
 GATCGCCGCC AACATCCAGG CTGACTACTT GTATCGGTGA CGCCCCACCG GCCCGCAGCC 60  
 CCTGCTGCCC AATAAAACCA CTCCGACCCC AAA 93

(2) INFORMATION FOR SEQ ID NO: 2561:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 92  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02936  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2561:  
 GATCATCCCT TGACAGTAGT TTGCTTTTCAT CTCACCTTTC ATTTGTCCCA AANNCACCTA 60  
 TATTTAATAA AGTCCCCCCC NGTNGTCTCA AA 92

(2) INFORMATION FOR SEQ ID NO: 2562:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 91  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02937  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2562:  
 GATCCACAAA ATGAGACAAT GCATGTGAAA ATCCATGCTC ATGTTCTAAA CATGGAAACT 60  
 AGGAGCCTAA TAAACTTCCT AATTCAGTAA A 91

(2) INFORMATION FOR SEQ ID NO: 2563:  
 (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 96  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02938  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2563:  
 GATCGTATTT TTATATCATA TTCACATATT TTTTTTTTTTA ATTGGTGTTA GATGACATGA 60  
 TTAATAAAAA AGGCAAGATA TTTTCAGAAT TTGAAA 96

(2) INFORMATION FOR SEQ ID NO: 2564:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 88  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02940  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2564:  
 GATCGCGCCA TCGCACTCTC AGCCTGGGCA ACAAGAGTGN AACTCCATCT CAAAAAATA 60  
 AAAATAAAAT AAGTAAGNAA TACCTAAA 88

(2) INFORMATION FOR SEQ ID NO: 2565:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 87  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02942  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2565:  
 GATCTAATAT ATATCATCAG AAAATATATA TTGTATGTTT ACTCTTATTT TCAGAAAGAG 60  
 AAAATGAATA AAAATGATGA CATCAAA 87

(2) INFORMATION FOR SEQ ID NO: 2566:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 87  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02944  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2566:  
 GATCGCTTGA NCCCAGGAGT TTAAACCAG CCCGAGGAAC ATGGCGAAAC CCCATCTTTA 60  
 CAAAAAATAC AGAAATNAGC CAAGAAA 87



## (2) INFORMATION FOR SEQ ID NO: 2567:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 86
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02946

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2567:

GATCTAAGGG GTTGCCATGG TGTTGAACAA TGCAACTTTT TATTTAAGAA AGCTCTGCAC 60  
 TGCCATGTAT GAAAGTNTCT TTATGN 86

## (2) INFORMATION FOR SEQ ID NO: 2568:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 86
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02947

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2568:

GATCCNGGAT TGCTGGGAAT GGAAGCCAGG TGGGGTCATG GCACAAGTTC TGTAATCTTC 60  
 AAAATAAAAC TTTTTTTTTT TACAAA 86

## (2) INFORMATION FOR SEQ ID NO: 2569:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 85
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02948

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2569:

GATCCTGGCC ACTATGCCAG TTCTGACCTC GCATCCCCCT ACCCCGAGCC CATGCAGTCT 60  
 GGGAACATGC CGCCTTCTCT CCAA 85

## (2) INFORMATION FOR SEQ ID NO: 2570:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 85
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02949

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2570:

GATCAAATTG TACTAGTGTC TGCAGGGTTT GTCAGTACTC GTCAAAGCCA AGTCCAATTA 60

AAAAAAAAAG TCTTTGCCCT CCAA

85

(2) INFORMATION FOR SEQ ID NO: 2571:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 85
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02950

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2571:

GATCTTTTCT TTAAATTTCT TCTGCACACA CAGGACTTCT CATTTTCCAA TAAATGGGTG 60  
TACTCTGCCC CAATTTCTAG GGAAA 85

(2) INFORMATION FOR SEQ ID NO: 2572:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 85
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02951

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2572:

GATCTTTTAC CCCTTTCACT CTTGGCTTTC TTATGTTGCT TTCATGAATG GAATNGAAAA 60  
AAGATGACTC AGTTAAGGCA CCAA 85

(2) INFORMATION FOR SEQ ID NO: 2573:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 84
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02953

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2573:

GATCTGCCTG ATGGGAGGGC TCCTGTCGAG GGAGACAGAC ATATCCCCAC TGAAAAATTA 60  
ATAAAATTGG TTTTACATAT CAAA 84

(2) INFORMATION FOR SEQ ID NO: 2574:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 84
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02955

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2574:  
 GATCTGACTG GAAAACAATC CTGTATCCCC TCCCAAAGAA TCATGGGCTT TTTTTTTNAN 60  
 TTAATAAGCA GACAAATAGA CAAA 84

(2) INFORMATION FOR SEQ ID NO: 2575:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 82  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02957

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2575:

GATCAAAAGA AACTTAAAAA GTGGAATGGG ATATGGCTTT TGGTACCTGA AAATAAATNC 60  
 TTTAATAATT GTAAGCCAGA AA 82

(2) INFORMATION FOR SEQ ID NO: 2576:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 82  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02958

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2576:

GATCAAAAAT ATAGTTATAA TTTTNTAAAT TTNAAAAATG TGATTGCNCT AATAAAGAAT 60  
 AAAANCTATG CTTTTAAACA AA 82

(2) INFORMATION FOR SEQ ID NO: 2577:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 85  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02959

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2577:

GATCACTGCA GNTTCTAGGA CCCGGTTTCT TTTACTGATT TAAAAACAAA ACAAAAAAAAA 60  
 ATAAAAAAGT TGTGCCTGNN ACAA 85

(2) INFORMATION FOR SEQ ID NO: 2578:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 81  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02960

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2578:

GATCTCCCAT AATTTGAAAT TGAAATCGTA TTGTGTGGCT CTGTATATTC TGTTAAAAAA 60  
 TNAAAGGACA GAAACCTTAA A 81

## (2) INFORMATION FOR SEQ ID NO: 2579:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 79  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02962

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2579:

GATCCACCAT CTTATCTTGG TGCCATCCCT GACTTGGCTT CTGTTCATAA ATGCCTATTA 60  
 AATGTTTCTT TCTGAGAAA 79

## (2) INFORMATION FOR SEQ ID NO: 2580:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 79  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02963

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2580:

GATCCAATTG CTGGTTACAT TTTGGGAAGC TCTCATTTTA GTGCTATGTA GTTTCATTGA 60  
 ATAAACTGTT TAATATAAA 79

## (2) INFORMATION FOR SEQ ID NO: 2581:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 75  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS02964

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2581:

GATCTAAGAG GAAAGTGGTT ATCGGTTGCN NTTTTATTAT AAAGGATGCA AACATAAAAT 60  
 TAGATTTTGG GCAAA 75

## (2) INFORMATION FOR SEQ ID NO: 2582:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 73  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02965

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2582:  
 GATCAGCCTT TTTGTTTCAA TGAGGTGTCC AACTGGCCCT ATTTAGATGA TAAAGAGACA 60  
 GTGATATTGG AAA 73

(2) INFORMATION FOR SEQ ID NO: 2583:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 72  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02966

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2583:  
 GATCCCAGAG TGGCCTGCCT ATCACAACCA CATCCCTTCC CCCCACAAGG CAATAAATCT 60  
 CATTCTTTA AA 72

(2) INFORMATION FOR SEQ ID NO: 2584:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 72  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02967

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2584:  
 GATCAACGAC AAAATGCACT TCTCCCTCAA GNAGTGAGGC TTGGTCCAAT ACATGGCTCT 60  
 GCCCCCAGA AA 72

(2) INFORMATION FOR SEQ ID NO: 2585:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 72  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02968

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2585:  
 GATCAATCTT GTATTTTCTG ACCACATAAA GGCTTCTTCT CTTTGTAATA AAGTAGAAAA 60  
 GCTCTCCTCA AA 72

(2) INFORMATION FOR SEQ ID NO: 2586:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 166  
 (B) TYPE: nucleic acid

(C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02969  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2586:  
 GATCTTGTTT CTGAAGATGG TTTAAGTTAT AGCTTCTTAA ACGAAAGAAT AAAATACTGC 60  
 AAAATGTTTT TATATTTGGC CCTTCCACCC ATTTTAAATT GTGAGAGATT TGTCACCAAT 120  
 CATCACTGGT TCCTCCTTAA AAATTAAAAA GTAACCTCTG TGTAAG 166

(2) INFORMATION FOR SEQ ID NO: 2587:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 71  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02970  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2587:  
 GATCATAGGA GAGACCCATT NGCTAGCTAC TTCATTCGTT CTGACCTAAT AATAAAAGTT 60  
 AGAACCATAA A 71

(2) INFORMATION FOR SEQ ID NO: 2588:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 72  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02971  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2588:  
 GATCTGACGT TCCTTGTTGAC TTAAGGGTCC GGCTTGGGAA TTAAAGTTTG TTTCTGGCCT 60  
 TTAGCCTACA AA 72

(2) INFORMATION FOR SEQ ID NO: 2589:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 70  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02972  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2589:  
 GATCTGGCCA GTCAAGGGTC CACAGGGTGC CAGCCTCTCA CCCTCAGAAT AAAGACATCA 60  
 GCCATTCAAA 70

(2) INFORMATION FOR SEQ ID NO: 2590:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 69  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02973  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2590:  
 GATCATCTAA ACTGAGTCCA GCTGCCTAAT TCTGAATATA TATATATATA TATATCTTTT 60  
 CACCATAAA 69

(2) INFORMATION FOR SEQ ID NO: 2591:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 68  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02974  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2591:  
 GATCCTTATT ACAGGAAAAG CATGAGTGGT GGCTAACCTG ACCAATAAAG TTATTTTATG 60  
 ATTGCAAA 68

(2) INFORMATION FOR SEQ ID NO: 2592:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 68  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02975  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2592:  
 GATCTTAGAT TTTATGTAGT ATTAAGTGAA AAAATACGAA AATAATAAAC ATTGAAGAAA 60  
 AAAATAAA 68

(2) INFORMATION FOR SEQ ID NO: 2593:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 75  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02976  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2593:  
 GATCACATTT TCTGTTGGTT AACATTNTTC CTAGCTTATA TGATGGAATT AAATATATTC 60  
 TGTGTAAAAA GGAAA 75

## (2) INFORMATION FOR SEQ ID NO: 2594:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 67
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02978

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2594:

GATCCACCTA ACAAGAAACC TAAAGTGTAG AGATTGCCAT TTNATTTGT AATTTTTTTT 60  
TTTTTTN 67

## (2) INFORMATION FOR SEQ ID NO: 2595:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 66
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02980

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2595:

GATCACACAC CGGCTGTATT TAATATGTAA CATTTTCACA NATATTAAAG ANACAGAAGT 60  
ATTAAA 66

## (2) INFORMATION FOR SEQ ID NO: 2596:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 65
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02981

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2596:

GATCAGCATG GGCCACGTAG NCGNGACTCC ATCTCTACAC ATAAATAAAA AATTAGCTGG 60  
GCAAA 65

## (2) INFORMATION FOR SEQ ID NO: 2597:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 63
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02982

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2597:



GATCCAATTT ATGTTTTTTC TTTNTTTATA TTTTGGGGAA AATTAAAATT TTTTAAAGGT 60  
 AAA 63

(2) INFORMATION FOR SEQ ID NO: 2598:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 61
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02983

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2598:

GATCACGCAA TAATGACTAT GTAATCTCAA AAAACAAATA AAATATTCTT AACATGGCAA 60  
 A 61

(2) INFORMATION FOR SEQ ID NO: 2599:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 60
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02984

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2599:

GATCCAAGCA GTGTGTCCT ATATAACTGA TAAAGCACT TGGTCTTNGA TTATCAGAAA 60

(2) INFORMATION FOR SEQ ID NO: 2600:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 58
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02985

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2600:

GATCATTTTG CACATAGCTT TATCAACTTT TAAACATTAA TAAACTGATT TTTTAAA 58

(2) INFORMATION FOR SEQ ID NO: 2601:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 58
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02986

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2601:

GATCTTTGCA GTTTTNGAC AATTACAAGT AAAGCTGCTA TAAACATTG TATGCAA 58

(2) INFORMATION FOR SEQ ID NO: 2602:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 74
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02987

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2602:

GATCGACACG CAGCTAGCCT CCTGCATTGT ATGGTTATAA ATAGCACCT AGTGAGTNCT 60  
GTCGTCCAGT CAAA 74

(2) INFORMATION FOR SEQ ID NO: 2603:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 58
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02988

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2603:

GATCCTGGGG CAACCCATCT GGTCTCTGA ATAAAGGTCA AAGCTGGATT CTCGCAA 58

(2) INFORMATION FOR SEQ ID NO: 2604:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 56
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02989

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2604:

GATCACGTTT CGTGTCATA CTCAACGTTA ATAAAAGGAG AGAGTTTGTA GTGAAA 56

(2) INFORMATION FOR SEQ ID NO: 2605:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 55
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02990

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2605:

GATCGCTGTG CCTGGCATAT AGTAGGTGTT CAATAAATGC CCTGTGACTC TCAA 55

## (2) INFORMATION FOR SEQ ID NO: 2606:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 59
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02991

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2606:

GATCTATCCT CAACAACAAC AGAAAAAAGG AATAAAATAT CCTTTGTTTC CTAGTGAAA 59

## (2) INFORMATION FOR SEQ ID NO: 2607:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 54
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02992

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2607:

GATCCATTTT AAAATTTGTA ATTCAATAAA GTTTTTTTTG TTGTAAACA TAAA 54

## (2) INFORMATION FOR SEQ ID NO: 2608:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 53
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02993

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2608:

GATCTTGAT TCAGTCAGGT TAAACAACG GACAATAAAA GAATGAACAC AAA 53

## (2) INFORMATION FOR SEQ ID NO: 2609:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 52
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS02994

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2609:

GATCTGGGGT GGGAGTAACA GGGCAGAAAT GATTAAATG TTTGAGCACA AA 52

## (2) INFORMATION FOR SEQ ID NO: 2610:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 52  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02995  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2610:  
 GATCCTTTTT TTTTCCACA AAATTTTAC AAATAAAAAA TGTTCCCTA AA 52

(2) INFORMATION FOR SEQ ID NO: 2611:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 52  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02996  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2611:  
 GATCTCAAAG TGCCTTCTGA AGCATCAGAG ATTAAATATT GTTCAAATA AA 52

(2) INFORMATION FOR SEQ ID NO: 2612:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 53  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02997  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2612:  
 GATCTGAATG GGGCTTNCCT GATGTTGGTA TCTAAGGCTT AGGCCTATAG ATN 53

(2) INFORMATION FOR SEQ ID NO: 2613:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 50  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS02999  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2613:  
 GATCTTGAAT GTATTTTCTT AAGTTTATTA ATAGACATTT TCACAATAAA 50

(2) INFORMATION FOR SEQ ID NO: 2614:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 50

(B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03002  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2614:  
 GATCTATCTG GAAAATGNAG GACTCCGAAT AAAAAGCTAT TACTAATAAA 50

(2) INFORMATION FOR SEQ ID NO: 2615:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 51  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03005  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2615:  
 GATCAGGGGA AATNTTTAAG CTAAATAAAT CTGGGGGGTT TTTTATTCAA A 51

(2) INFORMATION FOR SEQ ID NO: 2616:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 165  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03028  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2616:  
 GATCGAATGG TATATATTAG AAATTACATC TGTTGTAATT AAAATTGTGT GAGCAATTAA 60  
 ACATGGTTGA NTTTTTCAAG CAAAAATCAG TTCATCTTTT GATGTAATTT TCTAGGCTAA 120  
 ATGGCAATCT CTGAAAGATG AATAAAGCTA TATTTATTTA GCAA 165

(2) INFORMATION FOR SEQ ID NO: 2617:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 254  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03030  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2617:  
 GATCACATTT TAAGCATCTN TCTCTCCTAC TCCATTTAGA AAAATAAGTA ACAGGTGAAA 60  
 TGTGGTCTCA GTGTTAACGG GATAATTCTG CTACCGGCTC CTCCCTGATG ATTCTNAAAT 120  
 ACACTACTGA ACGAGCTCTG GCTGGTCCTT TCTATCCTGG ATGTGGTTCT TCTGTGTAGC 180  
 AATTCCTTGA NGTCCAGGTT GGAAAGATGT ACTCTTCTCA ACCAAGGAAA ACCTTAAATC 240  
 CCGTCGTGGC CAAA 254

## (2) INFORMATION FOR SEQ ID NO: 2618:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 271
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03031

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2618:

```
GATCAACCCC AGACTGGGCC AGAATGTTAG TGAAGGTTTT ATTGTGCCCC GTTGGAGGAT 60
AACGTTCTTT GGGTACTTTT TGTGGGTTGC AAATNAACTC AATTGCCACA AGTTTTAAAC 120
TGGTGTAAT CAAGCTTGAC TTAATGTGAT TGTNACTGTT ATATCCAGNC TATACTGCTA 180
GCAGCTGCTC ATACTGCAGT CAATTACTGG AAGCGGATAT ATTCCTATG CAAAACTGT 240
TTAAACAATA AAATGAGCTA TGCTACAGAA A 271
```

## (2) INFORMATION FOR SEQ ID NO: 2619:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 489
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03053

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2619:

```
GATCCACAGC TTAAAGATGG GAATTCAGGT ATGAAAGAAA ACAGGCAAGG AGGCACTGAG 60
GGAGAAAGAC ACAGACTTTA TCGCTCTGTG GCTCATTGTT ACTGGAATAT NCTAAACTC 120
TTGTNCACAT GCTATTATGA CTTATAAAGC AGCAACAGCT GAGGCGCACC AGGACACAGC 180
TTCCATTTCT TTAACGTCTG TNCCCTTAAC ATCGCTGAAA TNATTTACTG TTGAAGAGAT 240
GCCTTGCGGT GTGGCCAGCT GTGAGGAGAA AGCAGCTGGC AGTGTTAGGA CATTAGTCCA 300
CCTTCAGCGC AGGGTCTCTG GCCGGGTCTG ACTCAGAAAC CTTGGTACTC GNCCCTTGGN 360
CACAGTGCCC AGACCCATGT AACCNACTNG NTCCTGCATT AACCNAGAAA TACCTCGGTT 420
CTATNTGTGC ACTTAGCTGG GGACTTACCC ACTGTAATCA CCTNAATNAA NGGGTTNTAA 480
ACATGGAAA 489
```

## (2) INFORMATION FOR SEQ ID NO: 2620:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 471
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03055

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2620:

```
GATCCAAAAC GCTTCGAGGC ACCCAAATN ACCTGCCCAT TCGTNAGGAN GACCCACCCA 60
CCCAGTGTTA TATTCTGCCT CGCCGAGTG GGTGTNCCCG GGGGCACTTG CCGACCAGCC 120
CCTTGCGTCC CCAGGTTTGC AGCTCTCCCC TGGGCCACTA ACCATCCTGG CCCGGGCTGC 180
CTGTNTGACC TCCGTGCCTA GTCGTGGCTC TCCATCTTGT CTCCTCCCCG TGTCCCCAAT 240
```

GTNTTCAGTG GGGGGCCCCC TCTTGGGTCC CCTCCTCTGC CATCACCTGA AGACCNCCAC 300  
 GGCAAANACT GAATGTAANC TGTGNCTGNN GNCTCGGTCC AACTTGCGGN CCGTGTTTNA 360  
 CTNAACTNAG CTCCTTTAAC GGTAATATTT CNGGGAAAAT CCCATGNTTG GGTTTTGGTC 420  
 TTTAACCTTG GTAACGGTTG AAATCCAATT AAAGNTTTAA AAGTCATGAA A 471

(2) INFORMATION FOR SEQ ID NO: 2621:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 435
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03056

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2621:

GATCACCATT AAATCTGAAA GTACCTTTAA AAATACTGAG ATTNCTTCA TACTGGGCCA 60  
 GGNATTTNAC GAAGNACCTG CAGATGACAG GAAAGTCAAG AGCACCATAA CCTTAGATGG 120  
 GGGTGTCTTG GTACATGTNC AGAAATGGGA TGGAAAATCA ACCACCATAA AGAGAAAACG 180  
 AGAGGNTGAT AAAGTGGTGG TGGAAATGCNT CATGAAAGGC GTCACCTCCA CGAGAGTTTA 240  
 TGAGAGAGCA TAAGCCAAGG GACGTTGACC TGGACTGAAG TTCGCATTGA ACTCTACAAC 300  
 ATTNCTGTGGG NTATATTGTT CAAAAAGNTA TTGTNGTTTT CCATGGATTT AGCAAGCAAC 360  
 TAATTTTNTC CCAAGCTNGN TTTTTTTCAA TANTGGTNAC GTTGGNTAAA TAAANNTTTT 420  
 TTTAGGNTTT TNAAG 435

(2) INFORMATION FOR SEQ ID NO: 2622:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 411
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03058

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2622:

GATCTCATCA GGGGAAGGCT CTGTGATGCT GCAGGTTGAT GTAGACACAG TAAAAGGAGG 60  
 GCTGAAGTTG AACCCCAACT NNCTGGTGGA CTTCGGGAAG GAGCCCCTTG GCCCAGCCCT 120  
 TGCCCATGAG CTCCGCTACC CTGGGGGCGA TTGTAGCTCT GACATCTGGA TTTGAACTCC 180  
 ACCCTCATCA CCCCACTCC CTATTTTGGG CCCTCACTTC CTTGGGGACC TGGCTTCATT 240  
 CTGCTCTCTC TTGGCACCCG ACCCTTGGCA GCATGTACCA CACAGCCAAG CTGAGACTGT 300  
 GGCAATGTGT TGAGTCATAT ACATTTACTG ACCACTGTTG CTTGTTGCTC ACTGTGCTGC 360  
 TTTTCCATGA GCTCNTTGAG GCACCAAGAA ATAACTNGT AACCTGTAA A 411

(2) INFORMATION FOR SEQ ID NO: 2623:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 410
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03059

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2623:

```

GATCCAGGCG GGATGGAGTG TGGAGTGTGG GCACAGTGGC TTGTACAGGC CTGGNCTGGG 60
CAGACTTGCC CCGGAGTCTC AGGCCACTGC GGAAGGAGGA CGCGTGGCCA GCAGGTGCCA 120
CCAGGAGAGG AGAGGAGGGC CAGGCTGAGC TGCATCTNTG GACTCCAAGG AGAGCTTGGA 180
GAGGTGACTG AAACCCTGCC CCACCCCCAG CCTGTNTCCA TCTGTGGGTC CTTGGGCAAA 240
TTGCCTCATC TCTCTNAGCC TCGAATGCGT AGTTTCAGGA CTAAGTAGGG TACTGTGTAC 300
CAACTGCCTC TGCCAACGGC CCTGCACTGG GCANGCCTGG GGTACCTGGG CTTTGGGGNA 360
AGGAAGTAGG CCTTNGGNAG GAGGCTGGAT TGCTTACAAT TTTNTTTTNN 410

```

## (2) INFORMATION FOR SEQ ID NO: 2624:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 408
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

```

(B) CLONE: HUMGS03060

```

## (ix) FEATURE:

```

(D) OTHER INFORMATION: "N"=unidentified base

```

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2624:

```

GATCTGCGGC CCATCTACAT CTCTGTGCAG CCGCCTTCAC TGCACGTGCN GGAGCAGCGG 60
CTGCGGCAGG CATACTGA AACCGAGGAG AGCCTGGTGA AGCGGCTNGC TGNTGCCAGG 120
CCGACATGGA GAGCAGCAAG GAGCCCGGCC TGTTTGATGT GGTCATCATT AACGACAGCC 180
TGGACCAGGC CTACGCAGAG CTGAAGGAGG CGCTCTCTGA GGAAATCAAG AAAGCTCAAA 240
GGACCGGCGC CTGAGGCTTG CTGTCTGTTT TCGGCACCCC GGGCCCATAC AGGACCAGGG 300
CAGCAGCATT GAGCCACCCC CTTGGGAAGG CGATACGGCA GCTCTGTGCC CTTGGCCAGC 360
ATGTTGGAGT TGGAGGAGAT NCTTGCCCTT GTTGGTTTGG ACCATCCN 408

```

## (2) INFORMATION FOR SEQ ID NO: 2625:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 398
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

```

(B) CLONE: HUMGS03061

```

## (ix) FEATURE:

```

(D) OTHER INFORMATION: "N"=unidentified base

```

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2625:

```

GATCTCAACG AGACAAACGA TGGGTGGACC CGAACTCCCC GGTGCTCTTN GAGGACCCAG 60
TCCTTTNTGC CTTGGCAAAA AAGCACAAGC GAACCCAGC CCTGATTGCC CTGCGCTACC 120
AGCTGCAGCG TGGGGTTGTG GTCCTGGCCA AGAGCTACAA TNAGCAGCGC ATCAGACAGA 180
ACGTGCAGGT TTTTNANTTC CAGTTGACTG CAGAGGACAT GAAAGCCATA GATGGCCTAG 240
ACAGAAATCT CCACTATTTT AACAGTGATA GTTTTGCTAG CCACCCTAAT TATCCATATT 300
CAGATGANTA TTANCATGGA GGGCTTTGCC TGATGGTNTA CCAGAAGCCC TGTGTGTGGN 360
TGGGTGACGC AGAGGGACGT CTCTNTGCCG GTGACTGN 398

```

## (2) INFORMATION FOR SEQ ID NO: 2626:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 394
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:



(B) CLONE: HUMGS03062

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2626:

```
GATCACAGCT GGGGGAAAAA AAGCTTTTTA ATTCTGTACC TTCCTAGTAG ATAAGTGAAG 60
AGCAGGGGAA GAGACCTTTA AATATTTTNC TATAAAAAAA TTTGTGATAA GTTTCTATCA 120
AAATGGGGAG ATTGCAGAAA AGGCTTCCCT TGGNTCCCAA GGAGGTGTAG CAGGTGTGAG 180
CAATATTAGT GCCATGTGCC TTTCACACAG GGTTCGATT TATCAGTCTG TTTTCCGATG 240
NNNNGGTACA TGAAAGAGTA CACCATGTGA AGAGAAGAGA GAATGATTGA AAATGTTTTA 300
GTATAGACCT CTTCTTGCA GGGGTTGCTA TTTTCTAGAT TTTACTTTTT AGGGACCAAA 360
NTAAANTCCT TTGTAAACN TGGGTCAGNG NAAA 394
```

(2) INFORMATION FOR SEQ ID NO: 2627:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 392  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03063

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2627:

```
GATCGCACCA TTACTCTCCA GCCTGGGTGA CAGAGAGAGA CCCTGTGCCN NTCAAAAAAA 60
TGTTTTTTTT AAACAAGAAT CTCTCAGGCA TACTGAAATN TTGAAGAGGA AATNATATTA 120
ATATCTGGGA CTGTGTTTCCA AATTTGGAAT TGGGGCAGGG TGTAATNGT TGGCAATATC 180
AAAGAAACGA GGAGTTGGAA TNATAATTGT AGAAGCTGCA TGATAGATAC ACATTCTTTA 240
TACTTCTGTA TATGTNGAAA TTTTNNATCA AATTATAATN GTGTATAATG ACTAATTATG 300
CTTNCATTGT CTATCCTGTG TGGTTATGTN ACTTGCTGAA ATNNATACAT AANGGGTCTT 360
CAACCTTNAN NTGGTCTTAT CCANGGCATA NN 392
```

(2) INFORMATION FOR SEQ ID NO: 2628:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 385  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03064

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2628:

```
GATCTGTAAT NATCTCTATT GGCCTGGGGT GCCTGTGCTA TAAATAAGTT TCTTCACATG 60
AAAAACACAG CCAGCCCAAG ATNACTTATC TGGGTTTAGG ATTCAATAGT ATTCACTAAC 120
TGCTTATNAC ATGAGCAATT TCATCAAATC TCCAACTCT TAAAGNATGC TTTTCGGAAAA 180
CACGCTGTAT ACCTAGATGA TGACTAAATG CAAAATCCTT GGGCTTTGGT TTTTTTCTAG 240
TAAGGATTTT AAATAACTGC CGACTTCAAA AGTGTTCTTA AAACGAAAGA TAATGTTAAG 300
AAAAATTTGA AAGCTTTGGA AAACCAAATT TGTAATATCA TTGTATTTTT NATTAAAGT 360
TTTGTAATAA ATTTCTAAAT TTAAA 385
```

(2) INFORMATION FOR SEQ ID NO: 2629:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 385  
 (B) TYPE: nucleic acid

- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS03065
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2629:

```
GATCGGGGCC CTGGGGCTGT NAGACCCCGA CCNTCTCGAG GAACCCTGCC TGAAACGCCT 60
CCATTACCAC TGCAGAGTGA GATGAGGGGA CTCACAGTTG CCAAGAGGGG TCTTTGCCGT 120
GGGNNGGNTC GCCAGCCACT CACCAGCTGC ACTGAGAGGG GAGGTTNGCA CACCCCTCCC 180
CTGGGCCGCT GAGGCCCGCG CACCTGTGCC TTAATCTTCC CTCCCCTGTG CTGCCCCGAGC 240
ACCTNCCCCG CCCCTTTACT CCTGGGAAT TTGCAGCTGC CCTTCCCTNC CCGTTTTTAA 300
TGGCCTGCTG AAATATGTGT GTGAAGAATT ATTTATTTTC GNCAAAGCAC ATGTAATAAA 360
TGCTGCAGNC CNGCCTNTGC CAAA 385
```

(2) INFORMATION FOR SEQ ID NO: 2630:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 385
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS03066
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2630:

```
GATCCCGGGN AGTNACAGGT GCCGACGTGA TGTCGCTTCT NTGGTGCCCA GCTCCCTTCC 60
TGGTCTNANA CTAGCTCTGG GGGTGGCGGG GGCCCCACA CGCTGCTCCC GCTCCACCCT 120
GCCCCTNCTG CTGCTCTGTG CCTGCTGTCA GAGCCCTGGT GGGGGAGGAT GTGGCCACCC 180
TGAGACCCGG AGGAGACGGG CGTCTGCCTG GNTTTCGGA GAGCNGCTTA TGGGTGTGGT 240
CCGTCCAGAC ACCTTGTTTC AAGGGGGATG GGCGTNANGG GCAAGCAGAG CATCCCCACC 300
GNTGAGCAAG AACTTTTTTCT TGTTTTTAA CCATCACGTC CTCATTTCAC AATTGGAATA 360
AAGTGAGTTT TTTGGAAACC TGAAA 385
```

(2) INFORMATION FOR SEQ ID NO: 2631:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 381
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS03067
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2631:

```
GATCGCAAGG AACTGGGCCG CCTACTACCC CGACCTGCCC ACCCCAGAAC AGCAGCAAGA 60
CATGGCCAG TTCATACATT TATTTTCTAA GTTTTACCCC TGTAAGGAGT GTGCTGAAGA 120
CCTAAGAAAA AGTTGTGCA GGAACCACCC AGACACCCGC ACCCGGGCAT GCTTCACACA 180
GTGGCTGTGC CCCNTGCACA ATGAAGTGAA CCGCAAGCTG GGCAAGCCTG ACTTCGACTG 240
CTCAAAAGTG GATGAGCGCT GGCGCGACGG CTGGAAGGAT GGCTCCTGTG ACTAGAGGGT 300
GGTCAGCCAG AGCTCATGGG ACAGCTAGCC AGGCATGGTT GGATAGGGGC AGGGCACTCA 360
TTAAAGTGCA TCACAGCCAA A 381
```

(2) INFORMATION FOR SEQ ID NO: 2632:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 370  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03068

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2632:

```
GATCCGTAAG TCCATGACCA AGGAGGCCAT CCGAGAGCAC CANATGGCCC GCACTGGCGG 60
CACGAGACAG ACCTGTNCAC CTGCGGCAAG TGCAGGAAAA AGAACTGCAC CTACACACAG 120
GTGCAGACCC GCAGCTCTGA TGAGCCCATG ACCACCTTTN TTGTCTGCAA CGAGTGTGGA 180
AACCGCTGGA AGTTCTGCTG ACCCCTCGTG TAGATGTGCT GCAGCCTTGG GCCCTCCCCG 240
GCCCACGTCC TCCGTTGACA CAGCTTCTNT GGAGACCTTA GAAGGCGGCA TGTCTGCCCC 300
TCAACCTGCC TGCNTGGATT GCACCTTTCT GCCCTTTCCC CNTNATTATT AAATGTTTCT 360
TTTTGCCAAA 370
```

(2) INFORMATION FOR SEQ ID NO: 2633:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 344  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03069

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2633:

```
GATCTTCTTC AAGCCATTAT TTAACTCAA GAAACTCTA GAGAAGAAAA GTGAAGAAGT 60
CATGTTGAAG AAGATGTAAG AATGTGTCAA GACCATCCAG AAATNATATG AGAAATACTG 120
ATATTTTAAA TGGTTGACAT CATCCAGCGA AATGAATCTA CATTAAATGT TGTTTAACT 180
GCGCTATGAT TAAAACCATT CATATAGAGT TAGTNTTTAC AACTACTATT CTGTTATTTT 240
TTTTTTAATC TGACAACATT TGTCCTAAGT AAGATAAGCA AAAAAATTCT TCAACTCCTT 300
TTGGCAAGAA AACTGTAACA GAAATAANT TTTGAATGTG TACN 344
```

(2) INFORMATION FOR SEQ ID NO: 2634:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 341  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03070

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2634:

```
GATCCCTGGT CCAGAATTCC ATTTACCTTC TGGGCCAGAT ACCACCAGAA TGCCCGCTCC 60
ANATCCCTC AGACCTTTGC CGGTCCCATT ATTGGTCTCG GTGGTACAGC CAGTGCCAAC 120
TTCGCTGCCA ACTTTGGTGC CATTGGTTTC TTCTGGGTTG AGTGAGATGT TGGATATTGC 180
TATCAATCGC AGTAGTCTTT CCCCTGTGTG AGGCTGAAGC CTCAGATTCC TTCTAAACAC 240
AGCTATCTAG AGAGCCACAT CCTGTTGACT GAAAGTGGCA TGCAAGATAA ATTTATTTGC 300
TGTTCTTGG GCTACTGNTT TTTTCCCCT TGTGTGCTGT N 341
```

## (2) INFORMATION FOR SEQ ID NO: 2635:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 340
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03071

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2635:

```
GATCGNCAAG AAAATTNAGA TTGGCGATGG GGCAGAGCTG ACGGCAGAGT TCCTCTACGA 60
CGAGGNGCAC CCAAGCAAC ACGNCTTCAA GCAGGCCTTC GCCAAGCCCA AGGGCCCAGG 120
GGGCAAGCGG GGCCATAAGC GCCTCATCCG NGGCCCGGGT GAAAATGGGG ATGACAGCTA 180
GGAGGCTGGA GCATNNGNCG GCCACGTNTG GACTGTGGGG CTGCCCACCT TCCGCTCCCT 240
GCCACCATCC TCCTTCCTGG GCTCCAGGAA AGTNTTCTG GGAGGTCAGG AGGGCTGGCA 300
GCTTGAACGC ACTTGCAGCG TCCGANGGNC ACCGGGCTTN 340
```

## (2) INFORMATION FOR SEQ ID NO: 2636:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 335
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03072

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2636:

```
GATCTGTCTG CNTTCCTCAA GACCATTGCA CTGAATGGTG TGGAGGACGT GCGAACCGTG 60
CTGGAGCACT ATGCCCTGGA GGATGACCCG CTGGCGGCTT TCAAACAGCG GCAAAGCCGG 120
CTAGAGCAGG AGGAGCAGCA GCGCCTGGCC GAGCTCTCCA AGTCCAACAA GCAGAACCTC 180
TTCCTTGGCT CCCTCACCAG CCGCTTGTGG CCTCGCTCCA AACAGCCCTG AACTCTGGGC 240
CTCCTCAAAC TCAGTGCCTG GGTCCAGGGC CCCAGTGCTT CCAGACCAAG ACTTGGGCCA 300
CCACTTNTCC AATAAAGTAC ATCCGAGACG GCAAA 335
```

## (2) INFORMATION FOR SEQ ID NO: 2637:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 332
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03073

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2637:

```
GATCCAGTTG TGAACAAAGA GTCCTCTTNG TGGAAAAGAA AAAAATACAT NTCCCTTTAA 60
ACGGTGATT GAAAATAACT TTNATTTATA AAGAGAAGAC TGAGGGCGGG GATACTGATT 120
CANNAATCCT GTAGCGTGTA ATAAAAGAAG AGGAAATGGC ATGGAATCAC TGCCTCCTGT 180
GATTTGAAGG CCATTGTGAA GGAAAACAAT GCAGTGAAAG AAAGTTCTTC ATATTAGGCC 240
AGATATCATT GCATCACATT TATTTATCTT TCTGGNATTT TTATAGCCCT TAATAAAAAA 300
TATTAATAA GCCTGTGCTA TTGTGTCTTA AA 332
```

## (2) INFORMATION FOR SEQ ID NO: 2638:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 335  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03074

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2638:

```
GATCAAGAAT TTGGTGTGGA CGTTGGCCCT GTTTGCTTTT TATAAACCAA ACTCTATCTG 60
AAATCCCAAC AAAAAAATT TAACTCCATA TGTGTTCTC TTGTTCTAAT CTTGTCAACC 120
AGTGCAAGTG ACCGACAAAA TTCCAGTTAT TTATTTCCAA AATGTTTGGA AACAGTATAA 180
TTTGACAAAG AAAAATGATA CTTCTCTTTT TTNGCTGTTC CACCAANTAC AATTCAAATG 240
CTTTTNGTTT TATTTTTTTT ACCAATTCCA ATTTCAAAT GTCTCAATGG GGCTATAATA 300
AATAAACTTT CAACACTCTT TTATGGTNAA CCAA 335
```

## (2) INFORMATION FOR SEQ ID NO: 2639:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 384  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03075

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2639:

```
GATCAAGCCT GCCTCAATCA GTATTCATAT TTATAGCCAG GTACCTTCTC ACCTGTNAGA 60
CCAAATTNAG CTAGGGGGGT CAGCCAGCCC TCTTCTGACA CTAAAACACC TCAGCTGCCT 120
CCCCAGCTCT ATCCCAACCT CTCCCACTA TAAACTAGG TGCTGCAGCC CCTGGGACCA 180
GGCACCCCCA GAATGACCTG GCCGCAGTGA GGCGGATTGA GAAGGAGCTC CCAGGNGGGG 240
CTTCTGGGAA GACTCTGGTC AAGAAGCATC GTGTCTGGCG TTGTGGGGAT GAACTTTTTG 300
TTTTGTTTCT TCCTTTTTTA GTTCTTCAA GATAGGGAGG GNAGGGGGGA ACCATGAGCC 360
TTTGTGGCT AATCANTCCC AAGN 384
```

## (2) INFORMATION FOR SEQ ID NO: 2640:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 352  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03077

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2640:

```
GATCAAAGGT TTAAAGTCTA ACTTCTAAGA TATATTTGCA GAAAGAAGCA ACATGACAAT 60
AGAGAGAGTT ATGCTACAAT NATTTCTTGG TTTCCACTTG CAATGGTTAA TTAAGTCCAA 120
AAACAGCTGT CAGAACCTCG AGAGCAGANC ATGAGAACT CAGAGCTCTG GACCGAAAGC 180
AGAAAGTTTG CCAGGNAAAA AANNGGCATC ATTATTACCA TCGATTCAAGT GCCTGGTTAA 240
NGNGGNAAGC TTAATTNGTT TNAGTGGCAG CCNCNTNGCA CGTGGTTTGC TATGNAGGTG 300
AANGGTTTCC CAATTCCTTC AGGCTTTTTN GGGGGTTTTT GGGCTCTNCC TN 352
```

## (2) INFORMATION FOR SEQ ID NO: 2641:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 321  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03078

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2641:

```
GATCAAACAG CTCTAAGTAT GAAGCAAGAG TAAAGACTAA GGTTTCGAGA NCATTCCTAC 60
TCACATAAGT GAAGAAATCT GTCAGATAGG AATCTAAATA TTTATAGTGA GATTGTGAAA 120
GCAACCTTAA AGTTTTGAAG AAGACTGATG AGACTAGGTG CNNNGCTTCC TTTCATCAGG 180
TATCTTTCTG TGGCATTGTA GAACAGAAAC CAAGAAACAT GGTAATTNCT AANTTATGAG 240
GCTTTGCTTT TTGTTTGCTT TTAAGTAGAA AACCATGTTG GCAACATTGA GTTTTGNGT 300
TGATTGAGAT AATATGNCTT N 321
```

## (2) INFORMATION FOR SEQ ID NO: 2642:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 320  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03079

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2642:

```
GATCTTTGGC TGGAAACTA GAATTTATAG CAGTTTATTA ATGATACCTT AAATNACTCA 60
GGACTTAATG TAGCATTGCA CTTCTGTGTA CAGTAAACT GCTTTGTTTT ACTAAAGAGA 120
AAAATGTGAG TGGAAAAAAT ATGTATGTGT TATATACTCA AATGTATATA ATNCTATCTA 180
TAGATTTATA TATGTATACA TTCTGTACAG TAGTTCCATC AAAATATGTA ATAATTCACA 240
CCAATTTTAT TAAATGTATT TNCTTTTTC AATTTTAAAT TGAGCTGCTA TCAATATTAA 300
ATGAAGTTAT GGCATCTAAA 320
```

## (2) INFORMATION FOR SEQ ID NO: 2643:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 303  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03080

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2643:

```
GATCCCTTCG ATGTGGATTG AGGGAGAGAG TTTGGAAACC CCAACAGGCC TGTGGCATGC 60
ACCCGGCTGC CCTCGGACAC TGATGACAGT GATGCGTCTG AGGACCCAGG GCCTGGCGCC 120
GAGCGCGGAG GAGCCAGCAG CAGCTGCTGT GAAGAGGAGC AGACGCAGGG ACGGGGGGCT 180
GAGGCCAGGG CCCC GGCTGA GGT TTGGAAA GGAATCAAGA AACGGCAGAG AGACTNAGGG 240
TTGCAGACAC ATATATTTTT GAGGCTGGGT GACGAGAAAA TCTAGAGACA TGAGGGACAT 300
AAA 303
```

## (2) INFORMATION FOR SEQ ID NO: 2644:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 315  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03081

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2644:

```
GATCCAGACG CAAGANGGCT GTCCTCTCTA AGGAATATGG TTTTNNCTT CTAAGTGGTG 60
CTGCCAGCTT TATAATGGTG GCCCACCTAG CCATCANTGT TTCCAAGGCC CGCAAGANGT 120
ACAAAGTGGA GTATCTATC ATGTACAGCA CGGACCCTGA AAATGGGCAC ATCTTCAACT 180
GCATTGAGCG AGCCACCAG AACACGTTGG AAGTGATCC TCCCTTCTNA TTTTNNCTAG 240
CTGTTGGAGG TGTTTACCAC CCGCNTATAG CTTCTGGCCT GGGCTGGCC TGGATTGTTT 300
GGACGAGTTC TTTAN 315
```

## (2) INFORMATION FOR SEQ ID NO: 2645:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 314  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03082

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2645:

```
GATCCTTCTT GGCCCCAGAA AGTCATTTGG CATGGCTCCA GCCCCATGG CATCCGCTTN 60
TGGATAACTA CTGTGAAGCA TGGCGAACCG CGGACACAGC GGTCACGGGA CTGCGCTCCC 120
CGCTGAGCAC GGGGAAGATT CTGGACCAGA AAGCATAACG CTGTGCTAAT CGGGCTAATT 180
GTCCTATGTA TCGAAAACAG TTTTCATGNC GNCGTTAGGA AGTAATTGGC TTCTTNATGA 240
TTCTTAAAN GNGTTTTCAA TTTTCTCTAA TGNGAAGNGT TGNCACTGAA ATCTAAAATG 300
TTTANTTGTG NAAA 314
```

## (2) INFORMATION FOR SEQ ID NO: 2646:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 310  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03083

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2646:

```
GATCACTGTG GACAGGGTGC AGCTCTACCA GTTCTGTTT CTNCTGAGCC AGACCCTCTT 60
CAGGGAAGGG ACCAATTAAT TTTAAACTC ACTTGAAGCA CAGCTGGTCA TGGGGCTTGG 120
TATAAAGTTC CTATTTCCAC CCTGATACTT CCAATTCCTG GAACCCAGC CCACTCCNCC 180
ATCCCTCCTC CCTATCAAAC TAGTATAATG ATTTTGAATC GGTACAGTGT GTTTAACTGT 240
AACTAAGTTC GACAGACTAT TATTATCTTT GTAATAAATT AACCTAGCAA TAAAAATTAT 300
TCTGTNTAAA 310
```

## (2) INFORMATION FOR SEQ ID NO: 2647:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 308
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03084

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2647:

```
GATCTATTAA GCTTGANACA TTANGTNTCA TCACGCACTG AAGACAGGAA GCAGTTCAC 60
GAGTCAGCTG GTTCCCAAGC TCGCACAGAA GGTGATAAGT TACTATCAAA TGCCAGTNAG 120
AATCTNCTTA TAGAATAACC TGGGCCCAAG TNATTTTNGT ACAAACTTG CCCTTCTTTG 180
GTTTAATTTN CTATGTGCTT TTAGGTGTGA ATCCAGATAT GCGGTCTTAA TTCCTTTGGA 240
AATACACAGT TCGTTTAGTT ACTGTACACT CTGTTTGTTT AATAAACTGC ATATCANCTT 300
CCNACAAA 308
```

## (2) INFORMATION FOR SEQ ID NO: 2648:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 302
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03085

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2648:

```
GATCAGCAGC CCCTGAGCGG AGAAGAGGAG CTAGAGCCTG AGGCCAGTGA TGGTTCAGGC 60
TCCTGGGAAG ATGCAGCTTT GCTGACGGAG GCCAACCTGC CTGCTCCTGC TCCTGCTTCT 120
GCTTCTGCCC CTGTCTTAGA GACTCTGGGC AGCTCTGAAC CTGCTGGGGG TGCTCTCCGA 180
CAGCGCCCCA CCTGCTCTAG TTCCTGAAGA AAAGGGGCAG ACTCCTCACA TTCCAGCACT 240
TTCCCACCTG ACTCCTCTCC CTCGTTTTTT CTTCAATAA ACTATTTTGT GTCAGCTTCA 300
AA 302
```

## (2) INFORMATION FOR SEQ ID NO: 2649:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 302
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03086

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2649:

```
GATCAGCGAG CTACCANGAC CAGAGACCAA CTCAAGCTAC AGCAGAAGNA TTTTCCAAG 60
CCTGCTGACC ACAGTCACAT CACCCATCAG CACATGGAAG GCCCCTGGTA TGGACACTGA 120
AAGGAAGGGC TGGTCCTGCC CCTTTGAGGG GGTGCAACA TGACTGGGAC CTAAGAGCCA 180
GAGGCTGTGT AGAGGCTCCT GCTCCACCTG CCAGTCTCGT AAGANATGGG GTTGCTGCAG 240
TGTTGGAGTA GGGGCAGAGG GAGGGAGCCA AGGTCACTCC AATAAAACAA GCTCATGGCA 300
AA 302
```



## (2) INFORMATION FOR SEQ ID NO: 2650:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 303
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03087

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2650:

```
GATCCCAGCT GATGTAGACC CTCTCACCAT TACTTCATCC CTGTNATCTG ATGGGGTCCT 60
CACTGTGAAT GGACCAAGGA AACAGGTCTN TGGCCCTGAG CGCACCATTG CCATCACCCG 120
TGAAGAGAAG CCTGCTGTCA CCGCAGCCCC CAAGAAATAG ATGCCCTTTC TTGAATTGCA 180
TTTTTTAAAA CAAGAAAGTT TCCCCACCAG TGAATGAAAG TTTTGTGACT AGTGCTGAAG 240
CTTATTAATG CTAAGGGCAG GCCCAAATTA TCAAGCTAAT AAANTATCAT TCAGCAACAG 300
AAA 303
```

## (2) INFORMATION FOR SEQ ID NO: 2651:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 296
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03088

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2651:

```
GATCTCAGCT GGAAGTTCTG TTTGGAGCCC ATTTCTGTNA GACCCTGTAT TTCAAATNTG 60
CAGCTGAAAG GTGCTTGTAAC CTCTAATTTT ACCCCANAGT TGGAGTTCTG CTCAAGGAAC 120
GTGTGTAATG TGTACATCTG TGTCCATGTG TGACCATGTG TCTGTNAGGC AGGGAACATG 180
TATTCTCTGC ATGCATGTAT GTAGGTGCCT GGGGAGTGTG TGTGGGTCCT TGGCTCTTGG 240
CCTTTCCCTT TGCAGGGGTT GTGCAGGTGT GAATAAAGAG AATAAGGAAG TTCAA 296
```

## (2) INFORMATION FOR SEQ ID NO: 2652:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 291
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03089

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2652:

```
GATCTNACGG CCAGGCCTCT NTCCTGCTGC TGTTTTTAAT TTTCCAGGT AGTGGGAGAG 60
AGGAAAGGAG GGAAGGCAAG ATTCTTTCCC CCTCCCTGCT GAAGCATGTG GTACAGAGGC 120
AAGAGCAGAG CCTGAGAAGC GTCAGGTCCC ACTTCTGCCA TGCAGCTACT ATGAGCCCTC 180
GGGGCCTCCT CCTGGGCCTC AGCTTGCCCA GATACATACC TAAATATATA TATATATATA 240
TGAGGGAGAA CGTNTCACCC AGNTTTNATC ATGCTGGAAA GAGTGTATGT N 291
```

## (2) INFORMATION FOR SEQ ID NO: 2653:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 290  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03090

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2653:

```
GATCTAAAGG GTGTAAAAAT ATTGATACTT CAATATTTCA CTTGCTGCCA GGAAAAACAA 60
AATTCTCAAT CTTTTGTAAA TGGGAGGAGG ACTTTTGCAT ACATTTTAC TCTTTAAATA 120
ACGACAACGA CACTTATACT GTCATAATAA CAATNATGTA TTTCTTTGTG GTTTTAATTT 180
TTTTTGTAAT TTTACATAAA ACAGTTATTT TCTATTTTNA CGCAGATAAA TATTTGTGCA 240
TAAAATGTAA AAATAGTAAA ATGAGAAAAA TAAACTATT ATACAGTAAA 290
```

## (2) INFORMATION FOR SEQ ID NO: 2654:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 287  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03091

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2654:

```
GATCTGTCCT CAGCTCTGGA CCCAATCCC CTTACTTCAT TTTGGCAAAC ACTAAGTCAA 60
ATAGTGAAAT GCCTGTCAC TACATAGAACC TATTACCTGG GGCAAATACG AACAGATTGA 120
GTTTCCTTCA TCTTGTTGTA ATATGATGAA ACAGAGACCT GGTAACCTGG TGACACTGTT 180
AAACCCTTT NGGGATAAAG CCAAATGTAA ATGGAAACAT TAAACAGATA ANTTGTGGTG 240
TTGAGACTTT TCTGAATTGA GAAAAATAAA TGTAATTTTG GAAGAAA 287
```

## (2) INFORMATION FOR SEQ ID NO: 2655:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 287  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03092

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2655:

```
GATCTGACCG GCTTCAAGCT CAAGCCCTAC GTGAGCTACC TCGCCCTTNA NGAGCGAGGA 60
GACGCCCTG ACGGCCGCGC ACTCTTTCAG CGAANCNGTG GCGCCTGCCA TCGAAAAGNA 120
CTTCAAGGAC GGTACCTTCG ACCCTGACAA CCTGGAAAAG TACGGCTTCG AGCCACACA 180
GGAGGGAAAG CTCTCCAGC TCTACCCAG GAACTTCCTG CGCTANTGGG CGGGGGAGGG 240
GCGGCCTGCC CTCATCTCAT TTCTATTAA CGNCTTTGCC AGCTAAA 287
```

## (2) INFORMATION FOR SEQ ID NO: 2656:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 341  
 (B) TYPE: nucleic acid

- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS03094
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2656:

```
GATCGTGGAG GAGGGACAAC GCTGCCACCG NTTGCTGTC AACACGTGCC CCTACGTGCA 60
CAACATCACC CGCAAGGTAA CAAATCGGAA GTACCCAAAA CTGAAAGAAG TGGATGATGT 120
GCTTGGTGA GCAGCTGCCT GGGAGANTGT TGACTCTACT GCAGAGTCGT GTCCCAAATG 180
CGAACATCCT CGTGCTTACT TCATGCAGCT TCAGACCCGC TCTGCAGATG AGCCGATGAC 240
CACCTTCTAC AAGTGCTGCA ATGCTCAGTG TGGACACCGC TGGNGGGATT NGGGNCAGGT 300
NTGGCCCAGC TGCCCTNGTG TGTGCTTGCC TTGTNCCTCN N 341
```

(2) INFORMATION FOR SEQ ID NO: 2657:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 279
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS03095
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2657:

```
GATCCACAAG GTTGTCTGCT AAACCTGCTC CTCCAAAGCC ACAGCCCAAG CCTAAAAGG 60
CCCCTGCAAA GAAGGGAGAG AAGATACCCA AAGGGAAAAA GGGAAAAGCT GATGCTGGCA 120
AGGAGGGGAA TAACCTGCA GAAAATGGAG ATGCCAAAC AGACCAGGCA CAGAAAGCTG 180
AAGGTGCTGG AGTTGCCAAG TGAAGTGTGT GCATTTTGA TAACTGTGTA CTTCTGGTGA 240
CTGTACAATT TCAAATACTA TTTTATCA AGTTTAA 279
```

(2) INFORMATION FOR SEQ ID NO: 2658:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 279
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS03096
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2658:

```
GATCTGAATG TNCAGTTCTA GCCAAGGTAG ATTTTACTTT CAACTTTTTA ATCAGTATCA 60
CTTTCTGTGC TTAATAATTT GGTGTTACCT TGTCTGTTTT CATTGTCTA AAATNCTGTA 120
GAGATGACTA AAATTTGACA TAATGGTGTA AATGGATTGT NAAGGTAAT TTCAGTTGAN 180
GATTAANGCA AGANGCCATT TTCCCATGA CTTTGGTTTT GTTACATTT TNCCCTTTCA 240
GTTAGTATAC ACTACACGTA CTGTAATAAA GTNCAATAN 279
```

(2) INFORMATION FOR SEQ ID NO: 2659:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 274
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03097

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2659:

```

GATCTTTNCT AAAGCAAGGC CTTGAGCAAG TAGGTTGCTG TCTCTAAGCC CCCTTCCCTT 60
CCACTATNAG CTGCTGGCAG TGGGTTTNTA TTCGGTTCCC AGGGGTTGAG AGCATGCCTG 120
TGGGAGTCAT GGACATGAAG GGATGCTGCA ATGTAGGAAG GAGAGCTCTT TGTGAATGTA 180
AGGTGTTGCT AAATATGTTA TTGTGGAAAG ATGAATGCAA TAGTAGGACT GCTGACATTT 240
TGCAGAAAAT ACATTTTATT TAAAATCTCC TAAA 274

```

## (2) INFORMATION FOR SEQ ID NO: 2660:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 259  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03098

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2660:

```

GATCTGCCTG CNTTGGCCTC CCAAGGTGCT GGGATTACAG GTGTGAGCCA CCACCCCCAG 60
CCGCCTCTAT GCTTTTGGNT TCTTTGATAT ATCTAAACTT AAGGTCAGAA CAGAAATTCA 120
TGTGCTGAAC AGAATGGATT CTTTTGCGAG TACCAATCCA ATTGAATCCT CTTTTATTT 180
TCCTGCGTCC TTACCAGTCA CTTTGATAGT GCTAACTAAC CTACACTATG GGGGTTATTC 240
ATGANTTAAG TATGATAAA 259

```

## (2) INFORMATION FOR SEQ ID NO: 2661:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 272  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03099

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2661:

```

GATCTGTGTT TGTAACTAGT GTTGTAATTA ATTTTTTTAA TTCATGAACN AGCGGAAAAT 60
TTATTAAATT AACTATTAAC CACATTCACC TTGTAAATGA CTGTATAAAA CTNGTNGACA 120
ATGCACTGAC TTTAGAAAGA TGTTAATGTG CATAANTNGA GTGTAAATAA NATAGTGTG 180
ATGTACTGAN ATATGACCTG TATAANNNGT ATTAGTAATT GTNTATGGGG TGTACCTGTT 240
TATCTGTAAC TGTNATCCAA ACAAATNAAA TN 272

```

## (2) INFORMATION FOR SEQ ID NO: 2662:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 270  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03100

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2662:

```
GATCTATCTG GNNTGTGNT TAGACTNGAT GAGAAGGTGT GAACTCTGCA GAAAGTCTCT 60
CCTTCATCAC TGAATTCAGT CACTTGGAGA TGACAACTTC AAATGCTAAC CCGATGACCC 120
CAGAAAACCG TGTGAGATTC GTACCGAAGA ACCTTGTGGA ATCCCTTTNC TTAGGCCCCAA 180
CCTGGTCGAT AGCTCGAGAA AGANTNTTTN CCAAGGAAAT GTCTCGGATA TGGGTACTGT 240
ATTTGAAAGC TGTTAGCTTT GTCAACACGN 270
```

(2) INFORMATION FOR SEQ ID NO: 2663:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 268  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03101

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2663:

```
GATCATGAAT CAAGCCCTGG AACAGATGAA GACAAAAGCG GATGAGTGAG TTATATAAAC 60
TTACTTCCAT TCTGTTTCGG ATTTTAAGTT TGAGAGACTT GCTAATNAAT CTCCTTTATG 120
TTGTTTTCCCT TTTCATTGTT TTTGGATTGT TTTATGTTTG TCCTTTTTTT TCTTAATGTG 180
GATTTTCATTG AGTTGATTTT TTGATAATCT GCAATCTGGA TAATTTGTAC TGCTAAAGTT 240
TTAATAAACT CGACATGAGA AAAACAAA 268
```

(2) INFORMATION FOR SEQ ID NO: 2664:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 267  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03102

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2664:

```
GATCAAAATA GTAATAAATC AACAAATAAT TTTTGATTGA CTGGTGGAAT TAGATTTACT 60
AAATAAAAAT GGCTTAAATT TTGACTGTAC TAACTATAAA TGTAATGAAT TATAATAATT 120
ATAAATGGTA TAAATGCATT CTACAATGTG ATTATTTTCT GTATTTTAGT ATATAGTATA 180
AAATGGAATT ATTGGGTAA AGTACTTTTA TTACATTTCT TAATCCATTG TTTTACCTA 240
ATAAAATTC CTCCTCTATA TTCCAAA 267
```

(2) INFORMATION FOR SEQ ID NO: 2665:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 266  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03103

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2665:

```
GATCCGAATC TGTGCCCAGC GCTAAAGGCT CAGTGTTAGC ATGGCTTNNN CTGNCCGGTG 60
```

TGCCATATTC TTGTTGGAGA TGAACCGTAG CACCAGAGCC CATTCTTCCT TGTCAGTCTT 120  
 GGCCCAAAGA TGTCACCAATT CCTAGTTATT TGTCACCACA TAATTGGTGT TGATTGGAAA 180  
 CTTTTTCTGA GATGGGACAG AACTGCTGGG TTGTCTTTTT CCATGTAAC TAAGCATAGT 240  
 AATATAAATA AAGTAATAGT TGGAAA 266

(2) INFORMATION FOR SEQ ID NO: 2666:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 265
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03104

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2666:

GATCCTCCCT GTCATGCCAC ATTTCACTGA TTGGAATGTG GAAATGGAAA AGGAATTTAG 60  
 GATGTGCATT TTCACCTGAG GTTTCCTGC ATCCCTGCAG TGCCAAAGCC CCACCTTCAG 120  
 GGACCACCTG GAATGTGTGA GGGGCTGACA GCACAGTAAC GTGCATACAT ATCTGCAGGG 180  
 CTGGAATGGA AGCTTTAAAG GTGGTAGTGA TTTTNATTTT GGAAGAATCA TGTTACCTTT 240  
 TTGTAAATA AAATTTGTAC TCAA 265

(2) INFORMATION FOR SEQ ID NO: 2667:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 303
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03105

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2667:

GATCCAGTGT CCATGGAAAC ATTCCACAT GCCGTGACTC TGGACTATAT CANTATTTGG 60  
 AAAGCAGGGT TCCTCTGCCT GCAAACAAGC CCACGTGGAC CAGTCTGAAT GTNTTTCCTT 120  
 TNCACCTATG TTTTAAAGTA GTCAAACCTC AAGAAACAAT CTAAACAAGT TTCTGTTGCA 180  
 TATGTGTTTG TAAACTTGTA TTTGTATTTA GTAGGCTTCT ATATTGCATT TANCTTGTTT 240  
 TTGTAACCTC TGATTCTCCC TTTNCGGATA CTATTGATGA ATAAAGGANT TAANGTGGAT 300  
 AAA 303

(2) INFORMATION FOR SEQ ID NO: 2668:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 263
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03106

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2668:

GATCAACCAA GGCAGATGTG ACAGCAAGGG CCACGGACCC CATGGCAGGG GTGGCGTCTT 60  
 CATNAGGGAG GGGCCCAAAG CCCTTGTTGG CGGACCTCCC CTGAGCCTGT CTGAGGGGCC 120  
 AGCCCTTAGT GCATTCAGGC TAAGGCCCTT GGGCAGGGAT GCCACCNCTG CTCCTTCGGA 180

GGACGTGCCC TCACCCCTCA CTGGTCCACT GGCTTGAGAC TCACCCCGTC TGCCCAGTAA 240  
AAGCCTTTCT GCAGCAGCTG AAA 263

(2) INFORMATION FOR SEQ ID NO: 2669:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 258
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03108

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2669:

GATCTGGCCT AGGTCCCCC TTTNTNCTGT CCCCTGTNTT TAAGTCGGGA TTTTACAGA 60  
GGGAGCTGTC TCCAGACAGC TCATCAGGAA CCAAGCAAAG GCCAGATAGC CTGACAGATA 120  
GGCTAGTGGT ATTGTGTATA TGGGCGGGAC GTGTGTGTCA TTATNATTG AGTTATGCTG 180  
TTGTTTAGGG GTAAATAACA GTAAATAATT AATAATAATA ATAATAATAN TAATAATAAN 240  
GGNGCNGACG TTCTTAAA 258

(2) INFORMATION FOR SEQ ID NO: 2670:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 257
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03109

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2670:

GATCCACCCG CCTCGGCCTC CCAAAGTGCT GGGATTACAG GCATGAGCCA TCACACCTGG 60  
TCAACTTTCT TTTGATTAGT GTTTTTGTGG TATATCTTTT TCCATCATGT TACTTTAAAT 120  
ATATCTATAT TATTGTATTT AAAATGTGTT TCTTACAGAC TGCATGTAGT TGGGTATAAT 180  
TTTNATCCAG TCTAAAAATA TCTGTCTTTT AATTGGNGTT TAGACAATTT ATATTTAATA 240  
AAATGGNNGA ATTTAAA 257

(2) INFORMATION FOR SEQ ID NO: 2671:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 257
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03110

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2671:

GATCAGATGT NGCTCAGAAA CTTTCATTGT TTACCTAATA ATTTAATATC ACTAGTTTCC 60  
TAGTGGGTCA AGCAGATGCA AAANCCAGCT TATTTCCCTCC TATGTNCTCT CAAGCTTATN 120  
GCTTATTTNA AAGTAAAANC CTGAAAAAGG AAAATATTAG GTTGGTGCAA ACGTAATTNC 180  
GGTTTGTCCA TTGTNGAAAT TTGCCGTTTT ATATTGGAGT ACATTCTTAA NTAAATGTGG 240  
TTATGTTATA CATCAA 257

## (2) INFORMATION FOR SEQ ID NO: 2672:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 256
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03111

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2672:

```
GATCAATTAC TGCCTCACT TAGAACAAAG CCTGAGTCCG AGAATATTTA TATTTTACCA 60
ATATATGCCT GTTACAAGAG AAGGAAATAT GAGTTATTTA AGTTTAACTT TTTTATGTGA 120
ATTCAGAGTT TATTTATCGA GGGAAATATG TACAAAGAAG CTTCAAATGG AATATTTACC 180
GACATTCCTT ATACATGACA GACACTNGGC TACATGGGAA GATGATGTTA ATAATAANNT 240
GATTTTTTAA TGGAAA 256
```

## (2) INFORMATION FOR SEQ ID NO: 2673:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 256
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03112

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2673:

```
GATCTGGAGA GGATTAGGGA CGGCTCTTGT GGGCACATTT TNNCTCTAGT TTCATGGGTG 60
GAGATGGCAT CTCCNGTGGT CTGCAGCATG CAAGTAAAGA CACCAGGTGG CACCATTNAT 120
NAGCTTTCAA TCCCATGGAG AGGTCCCATC ATGTAAC TNC CAAGAGGTTG AAGGAACCAA 180
CTACCTCTTG CATATTGTNG CTAATGGTTC TNGCCTTCTC CTTCCAGACT TGGGAAATAA 240
NTTTNAAAAT NGTAAA 256
```

## (2) INFORMATION FOR SEQ ID NO: 2674:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 433
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03115

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2674:

```
GATCTACCTT GGTGATTTGG ACCCTGGTTG CTTTGTGTCT AGTTTTCTAG ACCCTTCATC 60
TCTTACTTGA TAGACTTACT AATAAAATGT GAAGACTAGA CCAATTGTCA TGCTTGACAC 120
AACTGCTGTG GCTGGTTGGT GCTTTGTTTA TGGTAGTAGT TTTNCTGTAA CACAGAATAT 180
AGGATAAGAA ATAAGANTAA AGTACCTTGA CTTTGTTTAC AGCATGTAGG GTGATGAGCA 240
CTCACAATTG TNGACTAAAA TGCTGCTTTT AAAACATAGG AAAGTAGAAT GGTGAGTGC 300
AAATCCATAG CACAAGGTAA ATTGAGCTNG TTANGGCAAT CAGGTAAAAT AGTCATGNTT 360
CTNTGTNATG TAANCCCGTA AATGANTGTT CTTGGTTTCN CGGTGGTTTT TTNANGGNC 420
NCNTTNANNT TTN 433
```



## (2) INFORMATION FOR SEQ ID NO: 2675:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 250
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03116

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2675:

```
GATCAGAAGA AAGAAAGACA ACTTTCCTCT GCGCGGAACA CTCACACGGA AGGGCTGGCC 60
GCCTCCCTGA GCCGGCTGGG AGTNGACGAC AGGACCTACC TCCCCAGAGC AAGGGCCTGG 120
GGCTTCCCGC CAAAGCTGCC GCGGAACCCC GCTAGTGC GA CCACCCTCCC TCCGTCGGTA 180
TGTCCTGCTT TCCAGCTGAA CCCAACTAC AAGTGGGTTT AAAAAAATAA ACACCACCAC 240
CAAAAACAAA 250
```

## (2) INFORMATION FOR SEQ ID NO: 2676:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 247
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03117

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2676:

```
GATCTGAAAA AGATGGTCAT TCCGGACTCC TGACGCCGCC AGTCCCGCGG TGAGACGTGA 60
GCNCCATTGG GTCCAGTGGC CTCTNTTTC GTGGCAACCT AGTAACCATT AATTTTNAAT 120
TAAAGGAGAC AAAAAGCTCG ATGACAGCTC CAGGTCTGCT GAAGATGTCA AGAATCTGTA 180
TTAATATACA GCAAGAGAGC ATAATTGTNT GTCCATCTTC CAGAGCAGCG AAAAATGGAG 240
GGATAAN 247
```

## (2) INFORMATION FOR SEQ ID NO: 2677:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 245
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03118

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2677:

```
GATCAAAACC ATCTGGCCA AAATGGTGAA CCCTGTCTCT ACTAAAAATA CAAAAATTAG 60
CTGGGCATAG TGGCACGCGC CTGCAGTCCC AGCTACTCAG GAAGCTGAGG CAGGAGAATC 120
GCTTGAACCC AGGAGGCAGA GGTTGCTGTG AGCCGAGATT GCACCACTGC ACTCCAGCCT 180
GGGCAACAGA GTGAGACTCC ATCTGAAAAA AAAAAANTNC AGGCNTGCAA GNTTGGCGTA 240
ATCAN 245
```

## (2) INFORMATION FOR SEQ ID NO: 2678:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 347

- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS03119
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2678:

```
GATCAGCAGG GCTACCATCT CACTCTTCTG TAATTTTACA ACATTCTAAA GGAAGTAAAT 60
CACCAGATTT GCTGATGTAT CAGGGTCCAC CAGACACTGC AGAAATAATA AAAACATTAC 120
CTCAGNAATA CAGNAGGAAA CTTGTGTCTC AAGAAGAAAT GGAATTTATC CAACGTGGAG 180
GTCCTGAATA ACCATGGTGG CTGCTGTTTG TCATCAGACA NTAGAATTGT CTTACAATA 240
AAGGNCTTCC AAAATGGCAG ATGNGAAACT GTATATTAAA CACCTTTAGT AANTANTATG 300
GANNAAGTGN NATNTAGGNN ATTTAGGTGG TCCCTNGGAT TNCCGNN 347
```

(2) INFORMATION FOR SEQ ID NO: 2679:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 242
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS03120
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2679:

```
GATCTGGCCT GGAGAGGCCA TCCTATACCC CTTATTAGAG CCATGACAGC CTACAGAGTG 60
AGGTGAGGTG CTCCACCTT CCCAGATGGT TCCTTTCTGC CCCTTCCTGG AAGGAAAGGT 120
GAGGCTGCCA ATAGCCTCCT GGCACCAGCC AGACCTCACC CTTGACCAAC CTCTCGGGGC 180
TGGGGGTTCA TTCCTGGGGC ACTGTGGCCT GGTTTTGCTT TGAAACCAAG AAAGAGCAAA 240
GN 242
```

(2) INFORMATION FOR SEQ ID NO: 2680:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 411
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS03121
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2680:

```
GATCCCCAAC AATGTGAAAA CGGCTGTCTG TNACATCCCA CCTCGGGGGC TAAAAATNTC 60
CGNCACCTTC ATTGGCAACA GCACGGCCAT CCAGGAGCTG TTCAAGCGCA TCTCCGAGCA 120
GTTACAGGCC ATGTTCCGGC GNAAGGCCTT CCTGCACTGG TACACGGGCG AGGGNATGGA 180
CGAGATGGAG TTCACCGAGG CCGAGAGCAN CATGAATGAC CTGGTGTCCG AGTACCAGCA 240
GTACCAGGAT GCCACAGCCG AGNAGGAGGG CGAGTTCGAG GAGGAGGCTT AGGAGGAGGT 300
TGGCCTAGAG CCTTCAANTC ACTGGGGAAA AGCAGGGGAA GCAGTGTNGA ACTCTTTTAT 360
TCACTTCNA GNCTGGTCCN NGTNGGNCN GTTCCCACTG TGTGCAATTG N 411
```

(2) INFORMATION FOR SEQ ID NO: 2681:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 240

(B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03122  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2681:  
 GATCTGCGCA CGGTGCACAG CCCACCAGAG CACTACAGCC TTTTATTGAG TGGGGTGGGG 60  
 CAAGTGCTGG GCTGTGGTCG TGCCCTGACA GCATCTTCCC CAGGCAGCGG CTCTGTGGAG 120  
 GAGGCCATAC TCCCCTAGTT GGCCACTGGG GCCACCACCC TGACCACCAC TGTGCCCCCTC 180  
 ATTGTTACTA CCTTGTGAGA TAAAACTGA TTAAACCTTT GTGGCTGTGG TTGGCTGAAA 240

(2) INFORMATION FOR SEQ ID NO: 2682:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 237  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03123  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2682:  
 GATCACCTGG GGACAGAGGT GAAAGGCCTG CTGGGCCTGC TGGAGGAGCT GGCCTGGAAC 60  
 CTGCCCCCGG GACCCTTCAG CCCCCTCCC GACCTTNTCG GAGATGGCTT CTNAGCCCTG 120  
 GAGCTGGAGC CCAGCAGTTG GAGGTGGTGC ACCTGCCAGG CAGCGCCAC AGAACCAGCC 180  
 CTGTCCTCTC GACTTCCTTC CTTAGCTTCA TGTGAAATAA AAGCTATTCT GGTCAAA 237

(2) INFORMATION FOR SEQ ID NO: 2683:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 236  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03124  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2683:  
 GATCGGCATG GTCATTCACC AAGTGGAAGC CAAACCCTCT GTGTATTTCA TCAAGTTTGA 60  
 TGATGATTTT CATATCTATG TCTACGATTT GGTGAAAAAG TCCTAACTGT TAGGGTAAAA 120  
 TTTGGCACAT GTGTGGAAAC AAATGTATAA TTTGTAGACA TGCAAAAAAT GTTGCCCTTC 180  
 AGTGTATTGA AAGCTTATGG AATCCCTGAT AACTAAACAT CTTTGCCAGC ATTAAT 236

(2) INFORMATION FOR SEQ ID NO: 2684:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 236  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03125  
 (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2684:

```
GATCACACAT ATCCTTCCTG AGANGAGCAG TGAATAAAAT GGAATATCTT TTAAAGANCA 60
GCTCCTCTTT AACAAAAAAN CTAAAAAGAC AAATGTGAGA TGGGCTTAGA GTTAGTNCCTC 120
TGGGAACCTG AAAGACATTT ATGCCATATT ATTTATNCAC GTGTTTGTNC CTGGTGGGCA 180
AGATGCCATC TGAGGCTTCA GATGAGAAAT TGGGGTAANN TGGAAATTTT NCACTN 236
```

(2) INFORMATION FOR SEQ ID NO: 2685:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 234  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03126

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2685:

```
GATCAATCCC TCAAGATTTT GAAATCCTGA AGAAATTGAG AAGTATGTTG CTGAAATTGA 60
AAANGAAAAA GAAGAAAACG AAAAGAAGAA ACAAAGAAA GCATCATGAT GAATAAAATG 120
TCTTTGCTTG TAATTTTAA ATTCATATCA ATCATGGATG AGTCTCGATG TGTAGGCCTT 180
TCCATTCCAT TTATTCACAC TGAGTGTCTT ACAATAAACT TCCGTATTTT TAAA 234
```

(2) INFORMATION FOR SEQ ID NO: 2686:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 230  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03127

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2686:

```
GATCTAGGCC TGGCAAGANC TCTGGCCCCA AGGCCTCCTC TTCCCAGGGG CTGCCAAGTC 60
CTGGCCCTGG CCCTGGCATA TNACCCCGNA CTGTGGGGCC AGTCACCACT AGCCTGGCTC 120
AAATATTCCC CAGGGAGACT NCTGTGTGCT GCCCGGCTNC CTGCTGGCTC TCCCCAGNC 180
CCACATCCCN TCTNGAAGAG AATGTAAAT AAACCTGGAC ACAAGGGAAA 230
```

(2) INFORMATION FOR SEQ ID NO: 2687:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 232  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03128

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2687:

```
GATCCATGAG GTCCTAGCCC CTGGCTGCCT GGATGCNTTC CCCCTGCTCT CAGCATATNT 60
GGGGCGCCTC ANTGCCCGGC CCAAGCTCAA GGCCTTCCTG GCCTCCCCTG AGTACGTNAA 120
CCTCCCCATC AATGGCAACG GGAAACAGTG AGGGTTGGGG GGACTCTNAG CGGGAGGCAG 180
AGTTTGCTTT CCTTCTCCA GGACCANTAA AATTNTAAG NGAGNTACTA AA 232
```

## (2) INFORMATION FOR SEQ ID NO: 2688:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 229
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03129

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2688:

```
GATCACAAAA TGTNATAAAA CTTTAAATGT ATAAACTTTT ATCAAATAAA GTTTTATTTT 60
CCCCTTTAAA ATGTATTTNT TTAGAGGCAT TACTTTTTTA AAAATATTGG TCAATTNCNG 120
ACATAAGATG TGAGGTTTAC AGTTGTATTC CAGTATTCAA GATAGATTCC TGATTTTCCA 180
ATTAGGAAAA GTAAATCCA AAATGTTAGC AAAACAAAGT GCAATATTN 229
```

## (2) INFORMATION FOR SEQ ID NO: 2689:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 223
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03131

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2689:

```
GATCCCATGC CCAGGTGTCC AGCAGACCTC AAGGCAGAAG GGTCACCTAA CCCAGGAGTC 60
CACAGACTGA TGTGACCTCA GGTTCCCA CA TCANTGGCCA CAGGGCAGGG CCCACCTGGT 120
AGAAGTTTTC TGGATATGGC CAGGGTGGGT GTNTGGCTAA NTGGGCCTGA ACAGAGGGAA 180
CCTAGGGCCC TTGGCCAATG TGATTAAAGC TGCCATCTTG AAA 223
```

## (2) INFORMATION FOR SEQ ID NO: 2690:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 222
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03132

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2690:

```
GATCCGCCCT GGAGAAGTGA GTGGCTGAGA CCCGGGTGGG GCCCTCCTAA CCTTGGNTCT 60
GGGGGCTTCC NTTCTGGGTC TTGTCCGGGA TATGGCCTTC CTGAAGGTCT TACCTCCCCC 120
AGCCGCCCTG CACTTGACCA CCAAAGCAAT CTCTAAGCTT ATAAAGGAGA AACATGTATA 180
TATGGGGTTT TTTGGAGTAA AGGAAAATTC TAAGATATTA AA 222
```

## (2) INFORMATION FOR SEQ ID NO: 2691:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 222
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single

(D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03133  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2691:  
 GATCCACCTG CCTTGGCCTT CCAAGGTGTT GGAATTACAG GCGTGAGCAA CCGCGCCTGG 60  
 TCTATATGTN ATTTCAAATN AGGTGGCCTT ATAAATATAA GCAGATGGGT TTCTGGGCAA 120  
 AATCAAATNA TTTCTGTCTC TATTTNNTTG AGTACCAATT GTAAAANCTG AAATTAGGTT 180  
 GAGGAAAGTN CTTTAGAAAT AATAAAGATG TACAANTACA AA 222

(2) INFORMATION FOR SEQ ID NO: 2692:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 220  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03134  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2692:  
 GATCTGCCCA CCTCAGCCTC TTGAGTAGCT GGGACTACAG GTGCATACCA CCACACCTGG 60  
 CTAATTTTTT AATTTTNATT TTTATTAAAG ACAAGGTCTC ACTATGCTGC CCAGGTTGGC 120  
 CTCCCAAAGT GTTGGGATTA CAAGTGTGAG TCACCGTGCC TGGTCCCATG TACTTGANGT 180  
 CATCACTANC AAAATGTATA GATATTGTAT AATGGCAACN 220

(2) INFORMATION FOR SEQ ID NO: 2693:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 219  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03135  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2693:  
 GATCTTTAAT AAAAATTTGA TATGAAAAGC ACAATGTGCA GANGTTATGG AAAACCTATA 60  
 GAGGATTACA ACAGGTAAAC GTTAAAGAGA ATACATTGCT GACTTATAGT GATGTGGCTA 120  
 AGANGTACAT GCTTTGTTGT AAAATTNCTT GAAAGCCCAT TGAAAGATGT ATCTGTTTAT 180  
 TTACAGTCTT TGAAGTAAAA GTTACCAATG TTTGCCAAA 219

(2) INFORMATION FOR SEQ ID NO: 2694:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 219  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03136  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2694:

```

GATCTNGCCC CTGCGCTCTN GCCTGGGTGA CAGAGCAAGA NTCTATCTNA AAAATGTTTT 60
TAAAAAATAC TTCCTAGGGA AACACACATT TNGCCCTATT TGGAACCTTG AAAAGTGAGC 120
CCTCCTCTGC CCATGGGCCG TGCTGCTCAG CCTGCCATAC TCGCTTGCTT TGCTGTTTGG 180
NATTTGCCTC CAGAATAAAG GTCCTTTTTG TTGTTGAAA 219

```

## (2) INFORMATION FOR SEQ ID NO: 2695:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 224
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03138

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2695:

```

GATCCTAATC CCTTCCTCTC CCATTCACCC TGTGTAACAG NACCCCAAGG ACCTGCCTCC 60
CCGGAAGTGC CTTAACCTAG AGGGTCGGGG AGGAGGTTGT GTCAGTACT CAGGCTGCTC 120
CTTCTCTAGT TTCCCTCTC ATCTGACCTT AGTTTGCTGC CATNAGTCTA GTGGTTTCGT 180
GGTTTCGTCT ATTTATTAAA AAATATTTGA GANCAAAAAA CAAA 224

```

## (2) INFORMATION FOR SEQ ID NO: 2696:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 216
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03139

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2696:

```

GATCAAAGTC TTAAGTGTGT TTGCAGCTCA AAAATAAAGA TGTATTAAGG AGGGGAAAAC 60
CTGGTCTAAG TGCAAGGCAC ACTTACAGCG AGTTTTACTT TCGGTTGTAT TTTCTTTGTA 120
TATNATAAAC ATTTATTTAA CTTGTTGCCG TTTGAAGTAA AAAATTTCCA AAATGTATGC 180
TCAACAATAA TCATTAAAT GTTTTCAGCG TACAAA 216

```

## (2) INFORMATION FOR SEQ ID NO: 2697:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 216
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03140

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2697:

```

GATCAAATTG TGTTTAGTAT CACTATCTTC TCTCCTCGTT TCTCTCTTAC TCCTCATCCT 60
CCCAGAATCT ACCAGTTTAT GGTAGAAAGA TGGAACCTT ATTTGAATGT GTTTTTTTTT 120
TCCATGATGT CCAATTTTGT NGTGGGAAAG GATTTGGATA AAANTTTNGT TTAAATTNG 180
GTAGNTTTTN ATCTNTACAA NTTTAANTAA AATNAN 216

```

## (2) INFORMATION FOR SEQ ID NO: 2698:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 216  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03141  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2698:

```

GATCTCAAAA GTATTCCTCA GGGTAGTCTC CATTCTGTC ATTTTNCCTC CTATTCATGA 60
GACGGAAAAA TTATGACCAT GGTACAGAGT TGTATCAAGG AAATGAAGAA CTAGAACATT 120
GAATTGAAAG GTTTTGAAAG GGTTCACAAT TTCTTTTCAT TTNCTATTAA TGTCTTCTTT 180
TAAATNCTCT TAAGAATAAA ACTTTTTTCT AATAAA 216

```

(2) INFORMATION FOR SEQ ID NO: 2699:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 211  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03142  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2699:

```

GATCAGCAAA CAGGAATACG ATGAAGCCGG GCCTTCCATT GTCCACCGCA AATNCTTCTA 60
AAACACTTTC CTGCTCCTCT CTGTCTCTAG CACACAACCTG TGAATGTCCT GTGGAATTAT 120
GCCTTCAGTT CTTTTCCTAA TCATTCCTAG CCAAAGCTCT GACTCGTTAC CTATGTGTTT 180
TTTAATAAAT CTGAAATAGG CTACTGGTAA A 211

```

(2) INFORMATION FOR SEQ ID NO: 2700:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 236  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03145  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2700:

```

GATCACGAAC ANTAGCTTGC GCTCTACTCT GTAGTTATGT GGATTGCCGA GCAATNACCC 60
TTTTCAATNT CTTATTTCTG TGTTACTGAG GACCCTAATC ACTTAGGGAT GTAATTTTAT 120
AGTATAAACT TTCTGNACAG TTTTNCCTNAT AGTCTAATAA GTAAAAAGTG TCCNNCAAAT 180
TATGATAATT GCCTATGGTA CATGGATAAN TTAANGCACT GCACACGGTG TAAANN 236

```

(2) INFORMATION FOR SEQ ID NO: 2701:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 206  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:



(B) CLONE: HUMGS03146  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2701:  
 GATCCATTTTC TNACACACAC TGCCAGAGAT ACTCTAGGCA TGTAAGGCAC AACATACAT 60  
 ATAAAANCTG CGGGCTTCAA AAAATATAAG TAGGATGTCA TCTATACTGT CATACACTTT 120  
 GTTTTTTATC ACTTACTTAA TGTTATATCT NGGATATTGT ATTACCCTGG GTATTAAAAAN 180  
 GAACTCCTTT CACATTTTAA AATAAA 206

(2) INFORMATION FOR SEQ ID NO: 2702:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 206  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03147  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2702:  
 GATCTAAAC TGGGGTTTGG GGGAGGGTTT CANCECTCTCC CCACTCCNCT TGCCCCACAC 60  
 CCTTTACTCC CCAGCCCGAGA GAGACGCTGC TTTTACCAGG AAAGACTATT GAAAGATGTT 120  
 TTATATTATT TTNCTCTGAC CTTTCCATCC TTGAAAAAAT GGGGAAAAAA GAAGAAAAAA 180  
 GACAAAATCG ACCATAAAAG ACCAAA 206

(2) INFORMATION FOR SEQ ID NO: 2703:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 205  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03148  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2703:  
 GATCTTGTTA ATGCATTTTT GATGGGAAGA AAAGGTACAT GTTTACAAAG AGGTTTTATG 60  
 AAAAGAATAA AAATTGACTT CTTGCTTGTA CATATAGGNG CAATACTATT ATATTATGTA 120  
 GTCCGTTAAC ACTACTTAAA AGTTTAGGGT TTTCTCTTGG TTGTAGAGTG GCCCAGAATT 180  
 GCATTCTGAA TGAATAAAGG TTAAA 205

(2) INFORMATION FOR SEQ ID NO: 2704:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 203  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03149  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2704:  
 GATCCTGAGG CTTTGATGCT ATTTTNTTAA TCCAGCTGGT CTGTGGAGAA GCCTGGGACA 60  
 GAAAGAAGCA GCCAGACTCC AGAATCCCCC ATTTTAATAG CTATNNNATG CTATGTCCCC 120

GTCTTATTCC TGGCAACTTA CCTCTCAGCT CGTGCACTGT GACATTACAG CAAGAAGTAC 180  
 TAATATAAAT GACACAANG AAA 203

(2) INFORMATION FOR SEQ ID NO: 2705:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 203
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03150

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2705:

GATCTGAAAA AAATACGGTT GAAAGTGGTG CAGGTAATTA CAATGTGTAG GCAAACCAGA 60  
 AAACCATGGC TTTAACCAGC AGCTTTTGTN AGAAATNATT TCTCCAATGA NTGTAGAAAC 120  
 GTTTGCNGCT GAATTGTGAC CTTNCCATTT NACCTGCTTT TCCTGCAAAG TATATTTNNC 180  
 AGACCCAGGC AGTGCTGCTC GCN 203

(2) INFORMATION FOR SEQ ID NO: 2706:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 198
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03151

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2706:

GATCCAATGC TAAACTCCAA TGGTTCAGTG ACTGTGGTTG CTCTTCTTCA AGGCAGCTGA 60  
 TACCTGTGCA TACTGCAGGC ATCTAAATTA GAAGACCTGC GAGTAAACT GAAGAAAGAA 120  
 GGATATTCTA ATATTTNTNA TATNGTTGTT AATCATCAAG GNATCTNTTC TCGATTAAAA 180  
 TNCACACATC TTANGAAA 198

(2) INFORMATION FOR SEQ ID NO: 2707:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 201
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03152

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2707:

GATCCATAAT TCCTATTCAA TGAACATCAT TGTGGTGGC TGAATACATT TTGAAGAGA 60  
 GTTTTTTCATC TTAGAGATTG GTGAACAAGT GTGAGGGTGT GAGAACTCA CAGAATACAA 120  
 ATTTGCCTGT ATGTTTTGTG GGTTTTTTTT TTCCCTTCA NGATGTTTNC TATTNCTAAN 180  
 TTAANGTAAT TNCAAGGTAA A 201

(2) INFORMATION FOR SEQ ID NO: 2708:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 196

(B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03153  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2708:  
 GATCTATTAG TTTAGTGTTC ATNAAAGAAT CAAATGTATA GAATTACCAA GCATTCGTGG 60  
 GGAATNCTGT GTAGCAAATG TAAAACTNAC CTGCTCGGAA GAAACGTAGG ANCGCTTCAA 120  
 ACCCACTGTA ATGTTTGGTT TGANNTTATT TCCATTGCTT TNAGAGTGAN CTGCCTAAGN 180  
 GTAGGCCTTA TAATAN 196

(2) INFORMATION FOR SEQ ID NO: 2709:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 193  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03154  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2709:  
 GATCTACAAG NATTTTCTTT TAGTAGTTAT ACAAAGANT ATTACATTTA TTGGTCTGTA 60  
 CAGTGTAATA AACCAGCAAT AGGGACAACA ACAAAGAGAA TCTAAGAAAG ANGACTATGC 120  
 CTAANTATAG GGAAAGTTTA GAGAATCATT TTTAGACAGG ACACATTTTG CAGTAGTGAA 180  
 TGTGGTAGGT TTN 193

(2) INFORMATION FOR SEQ ID NO: 2710:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 193  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03155  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2710:  
 GATCAGTGTT GCAACATANT GNAAAAGATG GCTACTGTGC CTTGTGTTAC TTAATCATAC 60  
 AGTAAGNTGA CCTGGAAATG AATGAACTA TTAATCCTAA GANTTACATT GTATAGCCCC 120  
 ACAGATTAAN TTTAATTAAT TANTTCAAAA CATGTTANCC GCNACTTTCA TGTACTATGG 180  
 AAAAGTACAN GTN 193

(2) INFORMATION FOR SEQ ID NO: 2711:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 192  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03156  
 (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2711:

```
GATCTCGAAC CCTGTCTAGA AGGAATGTAT TTGTTGCTAA ATTCGTAGC ACTGTTTACA 60
GTTTTCTCC ATGTTATTTA TGAATTTNAT ATTCCGTGAA TGTATATNGT CTTGTAATGT 120
TGCATAATGT TCACTTTTTA TAGTGTGTCC TTTATNCTAA ACAGTAANGT GGTTTTATTN 180
CTATCACACA AA 192
```

(2) INFORMATION FOR SEQ ID NO: 2712:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 386  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03157

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2712:

```
GATCCAGAAT NGAGACTGGA CCTTCCAGAC CCTGGTAATG CTGGAAACAG TTCCTCGGAG 60
TGGAGAGGTT TACACCTGCC AAGTGGAGCA TCCAAGCATG ATGAGCCCTC TNACGGTGCA 120
ATGGAGTGCA CGGTCTGAAT CTGCACAGAG CAAGATGCTG AGTGGAGTCG GGGGCTTTGT 180
GCTGGGCCTG CTCTTNCTTG GNACAGGGCT GTTCATCTAC TTCAGGANTC AGAAAGGNCA 240
CTCTGGNCTT CAGCCANCAG GACTCTTTGN GCTGAAGTGC AGGTGNCCAC GATTCAAGGG 300
ANGAACCTTC TTGNCCANG NTTTTCAAGA TGGAAAAGCT TTCCCAACT TTGGNTTCTT 360
NTTNTTCCC ACCAAAGAAN CTTNAN 386
```

(2) INFORMATION FOR SEQ ID NO: 2713:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 189  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03159

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2713:

```
GATCTTCCGG AAAAACTAAG CCCCTCCTTC ACCCCCGCAC ACCTGCATCC CTGCCGGAGT 60
CNTGNTGAGG CACGAACCTT GCCTCCCTAG GCCGGACCTT GTGGACGACA GCCCCACCCA 120
GTCTGTGCTC TCAGCCGCTG GCCGAAGGCC CAGCCTGCTC AGAATAAAGC ATGTCCTGCT 180
GCCGGCAAA 189
```

(2) INFORMATION FOR SEQ ID NO: 2714:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 189  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03160

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2714:

```
GATCCCATAG TTTTACATTT TNCCTGTTTA TTTTGATTTT TTNCACTGCT TTATTCTTA 60
```

AAGTNCTAGC ACATCTGTNA CTCCTCCACT TCCACATTTT TNCAGTGCTT ACACTTACGT 120  
 GCAATCTTAT TCCTNGTCTG CACACACATG TGGAAAGCTA GAAATAAATG TTAAACTNA 180  
 CTTTTTAAA 189

(2) INFORMATION FOR SEQ ID NO: 2715:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 187
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03162

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2715:

GATCAAATCT CTCCTGGCTG TAGTAACCCA GTGGAATGAA TTTGGNCATG CCCCATGCT 60  
 TCTATATGCT AAGTGAAATC TGTGTCTGTA ATTTGTTGGG GGGTGGATAG GGTGGGGTCT 120  
 CCATCTACTT TTTGTCACCA TCATCTGAAA TGGGGAAATA TGTAATAAAA TATATCAGCA 180  
 AAGCAAA 187

(2) INFORMATION FOR SEQ ID NO: 2716:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 187
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03163

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2716:

GATCCAAGGG CACAAGGAGA TGAGCAAGGT GTGGAACGAC CTGAGGCCCA AGCTCAGCTG 60  
 CCTCTTTGCG GGACCACACA GCACCCTGAC CCCACCGTGC TCCNNGNCGG AGGACGGCCT 120  
 GTGTCCTCAN TAGCGCCTGA GGCTGNGGTG GTGCTCCCTG CGGNCGCACT AAAACCTCTT 180  
 TNCNAAA 187

(2) INFORMATION FOR SEQ ID NO: 2717:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 188
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03164

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2717:

GATCCTCCTG TTTACCCTGT ACCTCCAATG TCTGGCACTT GTAGGTGCTC AAATATTCGT 60  
 TGAATGAATG AAAAATCCAT ATTGTAATTG ATGTCCTCTG GCCACATAGT TTAAAATTA 120  
 GGTGATTGAT TATATGACCG AATAGAACTA TCAAATGTTT TCCTAATAAA GTCAATATTT 180  
 CAAACAAA 188

(2) INFORMATION FOR SEQ ID NO: 2718:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 183
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS03166
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2718:

```
GATCTGCCCC CCTCAGCCTC CCAAAGTGCT GGGNTTACAG GCATGAGCCN TCGCGCCCCG 60
CCGGATTTTT TTTTTTTTTG ATTCAGCTTA TACCAGGGCT GAAAACCTCA NTTTATGTTC 120
ATGACAGTNG GGATTTTTTTT AAATGCCTAC ATTCTTTCTA ATAACTGTT GGAAGACNTT 180
AAA 183
```

(2) INFORMATION FOR SEQ ID NO: 2719:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 182
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS03167
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2719:

```
GATCCAAGTG GCCCAGCAGA AACGGAATTN TNGTNAAT GACTGATTCT GGTGCATGTN 60
AAAGGCTCTG GGGAATNAAT ACCTGTTTGG TCCAACTTA CTGTATCATA ATGCTGTATA 120
TGTINGAAAC GTAATACCTG TNAATGTCCT AATGAATCAN GTTTTGCAGA AAACACCGTA 180
AA 182
```

(2) INFORMATION FOR SEQ ID NO: 2720:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 181
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS03168
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2720:

```
GATCCTCCAT TGGAGTGGCC CAATCTTTCC TCTAGGGCAA TCCTGAAAGC CCAAGGCCCT 60
TCNCAGTCTG GCCTTGGCTT CAGCTGGAGA AGGGTAACAT CAGTCATTGT CAAGGCACCN 120
CCANCCNGA CAGACCGTGT CTCTGATAAA GGTTTTGAAG TGATAAAGTT TTAAACTAA 180
A 181
```

(2) INFORMATION FOR SEQ ID NO: 2721:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 178
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS03169

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2721:

GATCCTCACT CCACTGTCAT GTTTGAAAGA GGTATTGGTG TTCTGGAGTG GGGGTCAACC 60  
 CCTCCCCAGT CTCTGTGCTA AGTTCACTTG GGAGGATGGC AGTAGGAGCC AGGGCTGGCC 120  
 ATGGGTCCCC TACGCTTNCC NNTAGGATAT ACCCTGGAGA ATGGCAAAAT GATTTAAA 178

## (2) INFORMATION FOR SEQ ID NO: 2722:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 287  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03170

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2722:

GATCCTAAGG CAAAGAGGTG TTTTTCCTTC TGGTTGATTC ATCCCAAAGC TTTCCACCCC 60  
 AGGTTTTCTC TGAAAGCTTA GCCTTAAGAG AACACGCAGA GAGTTTCCCT AGATATACTC 120  
 CTGCCTCCAG GTGCTGGGAC ACACCTTTGC AAAATGCTGT GGAAGCAGG AGCTGGGGAG 180  
 CTGTNTTAAG TCAAAGTAGA AACCCTCCAG TNTNTGGTGT TGTGTAGAGA NTAGGNCATA 240  
 GGGTAAAGNG GCCAAGCTGC CTGTAGTTAG TAGAGAAGAN TGGGGAN 287

## (2) INFORMATION FOR SEQ ID NO: 2723:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 178  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03171

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2723:

GATCACCATG ACTGCAACAT GGTTTATATT CATGCTGCCC TAGAACTTT TGTAATTATT 60  
 TGTGCAAAT TTGTGACTGT CTTATTAAC TTTCTTTNAT GTAAGTAATT TGTAAGATT 120  
 TCTNAAAATT TTTGCTTTTG CTTATTTAAT TTTNAATAAA AGCTAAATTC CTAATAAA 178

## (2) INFORMATION FOR SEQ ID NO: 2724:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 178  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03172

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2724:

GATCCTGGAG CCCCCGTGTC GGGGGGCGAG GGNGGGCGG TGNCCGACGA GTTGANCTTC 60  
 TNAACATGAG TGTCAACTTC AGGACTTGCT TCCAAGCCCT TCCCTCTGTT GGAAATTGGG 120  
 TGTGCCATNN CTCCCAAGGN AGGCCCATGT GACTAATAAA AACTGTGAA CCCTGAAA 178

## (2) INFORMATION FOR SEQ ID NO: 2725:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 337
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03173

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2725:

```
GATCCTTTTG AATTTTGAÇ AGCCCTAGAT ACAATCCCTT TTGATAAAAG GGTCTTTGCT 60
TCTNATTACA GGAGCACTGT GGAACGTCTG TAAATATGTT TTTATAATTC CATGTATAGT 120
TGGTGTACAC TCAAACCTG TCCCCGGCAG CCAGTGCTCT CTGTATAGGG CCATAATGGA 180
ATTCTGAAGA AATCTTGGGG AGGGAAGGGG AGTTNGAACA AATGTCTGTT CCCTGGGAGG 240
CCAGTCCAGT GCTCAGACCT TTAGACTCAT TGTAAGTTGC CACTGTCAAC ATGGGACCAA 300
AGGTGTGTGA CTAGTCAATG AAAGTGCGGN CANATTN 337
```

## (2) INFORMATION FOR SEQ ID NO: 2726:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 180
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03175

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2726:

```
GATCCAAAAC ACTCAATCCT CGTAAAGGG TACAGGTCCT ATTGTATGTT AACACACGTG 60
ATGATGTGAG CCATGTGAGA TGANCAATCA CCAGTTGTTA TGTTCGAATC TCCTTTGTGT 120
TGGGCCGCTT TAATGTCAGG GTTTCATAA ATAAATGAAT TTTCATATAC TGAAGTAAA 180
```

## (2) INFORMATION FOR SEQ ID NO: 2727:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 175
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03176

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2727:

```
GATCTGAGCC AGGATGGGAG TGAATCCCAG GCGGAGGCCA GAGCTGGCAG CCAGCTCTGC 60
CTTTCCACTG CCGGGAGTGC TGGGGGCCCA GCCTGGCCCC CNGAAGAGAC AGCCAAGTGT 120
CGTCCACATA CTCCTCCCAG AGTGAGCTCT AACCAGGCTC ATTTGCTCTN TCCAN 175
```

## (2) INFORMATION FOR SEQ ID NO: 2728:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 175
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear



## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03177

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2728:

GATCCTGTTN CCNACCTCCT TCTCCTCCCC TGTACTCCCC AGTGCCTTCC ATTGTCCTGG 60  
 TGGAGCTGGG GTTCTCTCTCC TCCCCAGTCC CACAACACTG CCAAAAATCT GTGTATGTNC 120  
 CATTGGGTGG GGCAGCCCCA AGCCTCCTGG GGAGGCAGGG CAAAAACAGG TGCCN 175

## (2) INFORMATION FOR SEQ ID NO: 2729:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 174  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03178

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2729:

GATCAGAGGA AAGATGAGAA AGAGAACAAG CATACCTATC TNACTCCTTC CAGTGGTCTC 60  
 TGTTCCTCC GTCTCCTGGA CCACGGCTAG AGTTCCAGT TTGGCCTTTT GGGGCATTCA 120  
 TCCCATCTAC TTTATTTTCA TCTGCTTGGG CAGTAATGTA AACAAATTAA AGGN 174

## (2) INFORMATION FOR SEQ ID NO: 2730:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 271  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03179

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2730:

GATCGTCTGG GAGCCCAGTG TCAAGTCTGC TGGAATGCAG GAAGTAGAAC AGAATCGCCA 60  
 CAGGACTGTT CTGGGGCCAG GTTCCCTTAA CTCTGTAGCC TGGCAGTCTG ACCCAAAGTT 120  
 GCCCTCACCC AAAGTTCTG GCTCTTCCCT CCCTCACTTT TACTTTCCCT TCCCCATAA 180  
 GTTGGAGGAT AAAATGGGTA TCAATGNTAA TTTTCCAGG GNGNCCATGN NNACCAGCGG 240  
 TTTCTNNCTN TCTCTGTAAT CTGCTATGNA N 271

## (2) INFORMATION FOR SEQ ID NO: 2731:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 178  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03180

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2731:

GATCTNCGGN CTGTCGTTAG CAGGCTTAAT NAAGAACACT TCTCAACAGT TTCCTTTTTN 60  
 TTTTCCTTTA TAATCACTA AAATAAAGCA TCTATTAGTG TCTGATTAG GAATGTAAAA 120

TAATTCTNTA TTAATGTAAA TAAGATTATC TATTGCAAAA NGATATTTCA ANCCTAAA 178

(2) INFORMATION FOR SEQ ID NO: 2732:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 172
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03181

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2732:

GATCTTACCA AAGAGGTCAA CACATGGGAC CTTTGTGTCA CATGAACCAT TTTTTTTCCT 60  
 CTTCTATTAA GTGTATTTNT GTTTAAGNTA CAGTTCTCTA AGAGAATTAC AATGTTTGTC 120  
 CCATTTCTAA GGGCTTCTNT TCAACTCTAA TAACAGCATT ATTCACGTTA AA 172

(2) INFORMATION FOR SEQ ID NO: 2733:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 170
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03182

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2733:

GATCAGGAAA CGGCAACAAG CCTCCAGTA CTGACCTGAA AACTTGTGAC AAGAAGAACA 60  
 CCAACAAGTG CTCCCTGGGC TGAGGACCCT TTNTTGCCTC CCCACCCCGG AAGCTGNACC 120  
 TGAGGGAGAC AACGGCAGAG GGAGTNAGCA GGGGAGAAAT AGCAGAGGGN 170

(2) INFORMATION FOR SEQ ID NO: 2734:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 176
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03183

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2734:

GATCTGGATT TATGTATTTG TNAGATACAT ACGAATTGTT AAAATGGAAT GCAAGTTTTT 60  
 CAAAAGCCCA GGTCTAAATG TAATGGTTGG TTTATNGTNC TATAACCCCA GCCCATCATT 120  
 TCCTGTGTAA ATCATAAACA ATAAACAGAA TATACTCGGT GGCCATTTCT AATAAA 176

(2) INFORMATION FOR SEQ ID NO: 2735:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 163
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03185  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2735:  
 GATCCGCCCA CCTNGGCCTC CCAAAGTGCT GGGATTGCAG GCGTGAGCAN CCGCACCCGG 60  
 CCTCCTGAAT TAACATTTTC TAAAGATGCC TCCGGCGTGC TATCCTGAAA GCTGCCAGAG 120  
 GTGTCTTGGC TGCATTGGTG GTAATAAAAT TCATACTCAT AAA 163

(2) INFORMATION FOR SEQ ID NO: 2736:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 162  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03186  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2736:  
 GATCTCAACT ATGTNCCACT AAAGGCACAG GAATGGAAAA CTGAGAAAAG ATTTATTGGC 60  
 CTCACCAATT CCTTTGGTTT TGGTGGTACT AATGCAACAC TTTGTATTGC TGGNCTGTAG 120  
 AACATATANT TNGTAATNAA ATACTGATTT TNAAATGTTA AA 162

(2) INFORMATION FOR SEQ ID NO: 2737:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 160  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03187  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2737:  
 GATCCTGCCA CCCTGTAGCG CCAGTNTAAT CCCCCAGGAG AACATCTTTG AACTCTGCA 60  
 GACTGCTAGT GTTCTGTCTA AAAACCAGAC AAGGAAATAC CCTTCTTTTA TGAGCAGAAG 120  
 GAAACAAAAA AAAAAANGAG GCCNTTTTNC CTGGANGAAA 160

(2) INFORMATION FOR SEQ ID NO: 2738:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 159  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03188  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2738:  
 GATCTGCCTT ATTGCATATN CCATGCATCA GATAATGGAT GCATCAGATA ATGGNGTTAG 60  
 ACAAAGCTTC ATTGTGAACA ACCTAATGCA TTTNNGAGAA ACANTCTCAT CACATTTTTC 120  
 CTAGCCTTNC CTACATTTAA NCTTGCTGTT GCCCAAATN 159

(2) INFORMATION FOR SEQ ID NO: 2739:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 157  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03189  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2739:  
 GATCAGANGT TTCACCTGTT TCTCAGTTAT TGGATATGTA TCTTTGTGTA CATATCTTTG 60  
 CAAAANTGGA TAAGTACAAA NCTTGATGTA AATNGTACCA ATGANTATGT AAACATACAG 120  
 TGACANCATT AACTTAGAA AAGTTTTAAA ACTTAAA 157

(2) INFORMATION FOR SEQ ID NO: 2740:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 153  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03190  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2740:  
 GATCCACTGG AATTAGCCAA TACACTATAT AACAATACTA TTAAAGTATT TTTTCCTGGA 60  
 ATATAATTGG TATATGTCTT CCACTTTCCA TCATGTATGT AAAATTTTAT AGTAAACTT 120  
 CCTGATAGTT TCAATAAAGA AATNATCTGC AAA 153

(2) INFORMATION FOR SEQ ID NO: 2741:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 151  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03192  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2741:  
 GATCTTNAAT GCTTTGGAAA TGC GTGTAAC AGTACTGCAA TAATCACAGC TCTGGGAAAA 60  
 ACAACGAAAC TTTCCCTTGT GGAGAGGAGG GATTTCCCTG CTCTATATAA GCAACATATT 120  
 TTNAGACATT AAAATATGGT ATNCNNNNCC N 151

(2) INFORMATION FOR SEQ ID NO: 2742:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 150  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03193  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2742:

GATCTTNTCTN ATCCAAGCAA TAACGGGACG AGGGAGCCAG GGCCAAGGAC ACTCAGGGAC 60  
 ACTGTTGGGG CAGCGGCCCC ACATGGTAAT GTTTTNTTTA GAGAGAAGAA AAAACAAC TG 120  
 GCTGTAAACG TAAATNATAT TTNTTGAAA 150

## (2) INFORMATION FOR SEQ ID NO: 2743:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 150
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03194

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2743:

GATCGTNTTTT TTNCTTGTTA AATAATTAAA ANTCATCTTA AAATTCATAC TTTGACTTTA 60  
 ATTTAGACAC AAGGAGATGT AATCNCTGTG TAACATCAGA GAAAGCTATA TGGATTATNG 120  
 TCAGANGTAA ATGTTTCTAA CATTGACAAA 150

## (2) INFORMATION FOR SEQ ID NO: 2744:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 149
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03195

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2744:

GATCGAGTTG GCCGAGGATG GATGATTNTG NGCAGCAGAA GCCGTTGCAG CCCCACGTTG 60  
 TGCTCTAGGC AGGGACCTTT GGCCCCTTTG GGGAGGGAGA GACAGACGGG CGGTTTGACT 120  
 TGGACACAAA GAAAGCCTTG GTTTCTAAA 149

## (2) INFORMATION FOR SEQ ID NO: 2745:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 145
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03196

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2745:

GATCCCAGGT CTGGGGATGG GGGACACCTT NGGCCACAGG ATACTGGTTG CTTCAGGGGT 60  
 ACCCATGCCC NCTGCCCTNG CCTGGAATCA GTGTTACTGC ATCTGATTAA ATGTCTCCAG 120  
 AAATAAAGAA TAATTCTGCC AGAAA 145

## (2) INFORMATION FOR SEQ ID NO: 2746:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 143
- (B) TYPE: nucleic acid

(C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03197  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2746:  
 GATCACTCNT AGAGTNGCCA TTCTGCANCT TCCTAAAAAT ATTTTAAAAA TACATTTATT 60  
 TTAATAAATA CTGACTACAT TTNTNTGTGA ATATTGAGCT AAATGTTAAA AAATGGCCAG 120  
 ATTAAAAGAT ATCAATTTGT AAA 143

(2) INFORMATION FOR SEQ ID NO: 2747:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 142  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03198  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2747:  
 GATCCATAGT GTGCATGGGC AGACACATTT TGCCTCTATG TCTCTTAAAA TTTTAATTAA 60  
 AAATACTCTT TCCAGTAATC CTAATTTGCA CGAAGATATA ATGTCCACAT TACGTGCCTT 120  
 GCCTTGAAAT CTAACAAAACA AA 142

(2) INFORMATION FOR SEQ ID NO: 2748:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 142  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03200  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2748:  
 GATCTCACAG GACTGAGAAC TCGTTCACCT CCAAGCATTT CATGAAAAAG CTGCTTCTTA 60  
 TTAATCATAC AAATCTCAC CATGATGTGA AGAGTTTCAC AAATCTTTCA AAATAAAAAG 120  
 TAATGACTTA GAAACTGCCA AA 142

(2) INFORMATION FOR SEQ ID NO: 2749:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 141  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03201  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2749:  
 GATCTTTTCA TTTCTTACTA GCTTTTAAGA AATNAAATAC TTGCCTGAGA TAGAAATACT 60  
 TTATTTTTGT AACTTTAAGG TCTAAATNAC TAACTTCAA AGTAAGATTT TNTCAGAATA 120

AATTGAGACC ATTAATCTAA A

141

## (2) INFORMATION FOR SEQ ID NO: 2750:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 140
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03202

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2750:

GATCAGAAAA AGAAAGAAGC CAAAGAGAAA GGTACCTGGG TTCAACTANA ACGCCACCTT 60  
 GAGCTGCTGG AACCTATTCC CTATGAATTC ATGGCATAAT AGGTGTTAAA AAAAAAANA 120  
 AAGGACCTCT GGGNTACAAA 140

## (2) INFORMATION FOR SEQ ID NO: 2751:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 135
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03204

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2751:

GATCCTATTT TCNTACAACC TTTCAAGTAC ATCGTTCAGG NTTCTTTCTT GGCCATTTAA 60  
 AAAACAAAT TTTTTTTTNC TCACTTGTA GTCACCGCCA GTNCCTAAGT NAGGCTAACG 120  
 GNGACTTTGA CAGGN 135

## (2) INFORMATION FOR SEQ ID NO: 2752:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 134
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03205

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2752:

GATCAGTAAT AGATNTAGAT ATACTATTTT NATATTGTAA GCAGTTACNT ACTCAGGATT 60  
 AGNATTCGAA TTCATTTGAT TTAATATGTA ATAGGTAATA TTAAAANTAA AGATTTTATG 120  
 CTTTGAAACT CAAA 134

## (2) INFORMATION FOR SEQ ID NO: 2753:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 133
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03206  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2753:  
 GATCAGACGT CGCTGAGGGG CTGTNCACCA CCATCCTCGT TCTCCAGGGT CAAGGAAGTG 60  
 TTTTAACATG TCGTGTTTTT GACTTGACCT TGTGGTATTT TNCTNGGCCT AGTTGTGTGC 120  
 CATGGATATT AAA 133

(2) INFORMATION FOR SEQ ID NO: 2754:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 141  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03207  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2754:  
 GATCACTGTA GTTTAGTTCT GTTGACCTGT GCACCTACCC CTTGGAAATG TCTGCTGGTA 60  
 TTTCTAATTC CACAGGTCAT NAGATGCCTG CTTGATAATA TATAACAAT AAAAACAAC 120  
 TTCATTCTT CCTATTGTAA A 141

(2) INFORMATION FOR SEQ ID NO: 2755:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 132  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03208  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2755:  
 GATCGTTATA TTTNACATAA TATAAACAAA ATNACTAATG CATCTATATN CTTGGTTTCC 60  
 TTAAACTACA ATNAACCACA GAATGGGTGA AAATGCAGGC ATGCACGCTT GGC GTAATCA 120  
 TGGATGNNGC TN 132

(2) INFORMATION FOR SEQ ID NO: 2756:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 131  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03212  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2756:  
 GATCCGNCCG CCTCAGCCTC CCTATATGTT TTAAATATA ANTTTATTCT TATAAAANTA 60  
 AATTNAANCT AGATTGAGGT AGTAATTACA ACAGTCCAGC ACATTATGGA TAATTAATAT 120  
 TNATATTTAT N 131

(2) INFORMATION FOR SEQ ID NO: 2757:



(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 136  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03213  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2757:  
 GATCTGATAT TTTAAGANTT TGGAGACCAT TTCCTGTGCC AGANTCACTG CTCTATTCCA 60  
 TACCGTGCCA TGGAGGCTGT TTTAGAAGTG GTTGGATAAC ATGTAAATA AAATATTAAG 120  
 TGTAACAAAAA AATAAA 136

(2) INFORMATION FOR SEQ ID NO: 2758:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 129  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03214  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2758:  
 GATCCACCCA CCTTGGCCTC CCAAAGTCCT GGGATTACAG GTGGGAACCA CAGCACCTNA 60  
 CCCAGAATAT AAAGACACTT TTNTAATGTG CAATGAAAAA TATGTAAATA AANTATTTT 120  
 ATCTNTAAA 129

(2) INFORMATION FOR SEQ ID NO: 2759:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 129  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03215  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2759:  
 GATCCACCGT ACCAGGNAGC AGAAATATTT CTACAAAGGG GGCCTAGTTT GGAATGAGAA 60  
 CANNTCTGAC GGCCGGTATG TGAAGGAGAA CTGCAAACCT CTGAAGAGTT ACATGCTCCA 120  
 AGACTCCCN 129

(2) INFORMATION FOR SEQ ID NO: 2760:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 408  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03216  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2760:

```

GATCATGTTG GGATTAACCT GCCTTTTCC CAAAAANNA AACTCTCAGG CAAGCATTTT 60
TTTAAAGCTA TTAAGGGNGT ATATACTTGA GTACTTATTG AAATGGACAG TAATAAGCAA 120
ATGTTCTTAT AATGCTACCT GATTCTATG AAATGTGTTT GACAAGCCAA AATTCNNGGG 180
TG TAGANATC TGGAAAGTTC ATTCCTGGG ATTCACCTCT CCAGGGATTT TTTAAAGTTA 240
ATTTGGGAAA TTANCAGCAG TTCACCTTAT TGTGAGTCTT TGCNACATTT GACTGAATTT 300
AGCTGTCATT TGTNCATTTA AAGCAGCTGT TTTGGGGNCT GTGAGAGTCC ATGTATTATA 360
TCCAAGCCCA CCAGGGCTTN CCCTAAGGAN TTGCCATNGT AATACCCN 408

```

## (2) INFORMATION FOR SEQ ID NO: 2761:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 128
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

```

(B) CLONE: HUMGS03217

```

## (ix) FEATURE:

```

(D) OTHER INFORMATION: "N"=unidentified base

```

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2761:

```

GATCTAGGAA AGAAGGCAAC TGAAAAACCT GAAAGAAAAA AAATNAAAGA TTTAAAGTAT 60
ACGATATTCT ATTTTGATTT AGCAATTACT TGTTNCNAG TGTNCTGTNA ATTTTGGTN 120
ACTTTAAN 128

```

## (2) INFORMATION FOR SEQ ID NO: 2762:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 258
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

```

(B) CLONE: HUMGS03218

```

## (ix) FEATURE:

```

(D) OTHER INFORMATION: "N"=unidentified base

```

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2762:

```

GATCGGCAGG CTGAGGACCA GGTCCTGAGG AAGCTGGTGG ATTGGTCAA CCAGAGAGAT 60
GCCCTCATCC GCTTCCAGGA GGAGCGCAGG CTCAGCGAGC TGGCCTGGG GACAGGGGCC 120
CAGGGCTAGA CGAGGGTGGG CCGTCTGCTT TCGTTCCAC AAAGAAAGCA CCTNACCCCA 180
GCACAGTGCC ACCNTGTTC ATCTGGGCTG NCTGGCAGAG AGCCTTGCTG TTTACAATTA 240
AAATGTTTCT GCCACAAA 258

```

## (2) INFORMATION FOR SEQ ID NO: 2763:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 128
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

```

(B) CLONE: HUMGS03219

```

## (ix) FEATURE:

```

(D) OTHER INFORMATION: "N"=unidentified base

```

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2763:

```

GATCCTTGTT GGTCTAGCTA AATACTGTTA GGGGAGTGTG CCCCATCTCA TCATTTGAA 60
GATAGCAGAG TCATAGTTGG GCACCCAGTG ATTGGGTTCA AAAATAAAGC TGGTCTGCCT 120

```

CTTCTAAA

128

## (2) INFORMATION FOR SEQ ID NO: 2764:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 126
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03220

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2764:

GATCTNCCGC TCCCTCCCTG AAGGGCATGG GGCCAGGGNA GTCTGGACAG CCGCCCCCAG 60  
 CCTGCTGACC CCCAGCTTTC TACAGACACC ANATTGTAA ATAAAGTTGG GGAATGGACA 120  
 GCCAAA 126

## (2) INFORMATION FOR SEQ ID NO: 2765:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 126
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03221

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2765:

GATCTTTTTTA GGCCTTCATT TTATGTTTTT CCTTAAGTGT TATATTATNA TTGTAACATA 60  
 GATTATACTA CTACTAATTN NTGGATGTNT CAAAAGGTCA AGAAGTAAA NATGTTAGAA 120  
 AGCAAA 126

## (2) INFORMATION FOR SEQ ID NO: 2766:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 125
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03222

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2766:

GATCTCTGCA CAGTTTCTTG TTAGTCTTA TGCCTTTTAG TTGAAAAACA AATTGTATTT 60  
 TTTTCCTNCT AAGTTTCATG GCCCTAGAGA AGAAGCCAAT NTNNNTAAAG ATGTTATCCC 120  
 NGAAA 125

## (2) INFORMATION FOR SEQ ID NO: 2767:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 124
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03223

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2767:

```
GATCCTGGTT TCAATGACGG TTGGAAATAG AAATTNCCAG AGAAGAGAGT ATTGGGTTAGA 60
TATTTTTCCT GAATACAAAG TGATGTGTTT AAATACTGCA ATTAAAGTGA TACTGAAACA 120
CAAA 124
```

(2) INFORMATION FOR SEQ ID NO: 2768:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 131

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03224

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2768:

```
GATCACTTAG CAACATGCTT GGNAATTTGG NATCTNTAAA GGTAGGAGAG TGGTGAACAG 60
ATAATCTATG CATATATNAC TAGTGCCAAG ACATAAAGCG GGGGAAAATA TATTTTANCC 120
CAAACATTAA A 131
```

(2) INFORMATION FOR SEQ ID NO: 2769:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 123

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03225

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2769:

```
GATCAATTAC CTAAGTGTTC CTTGGTCTAT TTATGTATAA GAATGCTTTT TAAAGCACAT 60
GTCTCATTTC AAATNACGCA CAACTGAAG ATGTTAATAA AATTAAAGAG TAATACAATG 120
AAA 123
```

(2) INFORMATION FOR SEQ ID NO: 2770:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 388

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03227

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2770:

```
GATCCATTTG TCTGGCAGGA GGTTTTTGAT GATAAAGCAA CGCTTGCGCC AAGGCACAAT 60
AGTTGAAGNA TGGAAAGACA GCGCATATCC TGAGGAAGTC AGTAGAGTCA CAGCATCTGG 120
CTTCCCTGTA ATCCTTTCTN CTCCTNGGTA CTTAGATTNG ATTAGCTATG GACAAGATTG 180
GAGGAAATAC TATAAAGTGG AACCTCTTGA TTTTGGCGGT ACTCAGAAAC AGAAACAAC 240
TTTCATTGGT GGAGAAGCTT GTCTATGGGG AGANNNTGTG GATGCAACTA ACCTCACTCC 300
```

AAGATTTATG GCCTCGGGCA AGTGCTGTTG GTGAGAGACT CTGGAGGTTT CAAAGATGTC 360  
 AGAGATATGN GATGACGCCT ATNACAGN 388

(2) INFORMATION FOR SEQ ID NO: 2771:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 219
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03229

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2771:

GATCGATGGA CCGTAAATAA GCTGCCATTA ACACATCTGG TTAGTGCTGT AACATGACTA 60  
 ATAAAACCGA ACGCCTGTTC CCCTTACCCG TGTGGGGGAC ACGCAGATGA GTGAATTGGA 120  
 ATGTCCAGCA GAGTTACCCT CCCAATTATA TGTTTATTTT GTATATTTTT TGGTCGGGGG 180  
 AAAAATTGAC CTGCAGTAAA AAAACCTTTG ACCATTAAA 219

(2) INFORMATION FOR SEQ ID NO: 2772:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 120
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03230

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2772:

GATCAGCACA GGAAGAGCCT TCCTAAGCAT GTGGTCCCAG GGAAGGGTGA AAAGTAGGAG 60  
 TTATGAACGT AATCCACCTA CTACAATGTT GAATTAAAGT TATAATCTCA TAACTTCAAA 120

(2) INFORMATION FOR SEQ ID NO: 2773:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 120
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03231

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2773:

GATCCGCCCC CCTCGGCCCTC CCAAAGTGCT TGGATTACAG GCATGAGCCA CCGCACCCAG 60  
 CAAGAGTTAT TTNNTTAACT TGAAATTTTC TACTAGCCCT GGTGAACTTC TGTGCTTAAA 120

(2) INFORMATION FOR SEQ ID NO: 2774:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 119
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03233

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2774:

GATCCAAGGT GATACAGCTG GTAACGTATG GAGATGTTGG TAGTGAAATN CATGTACTTT 60

TAGTNCCTTTC TATGGAATCT AGAGGNAGAA TACATGTACA AGAATATCGA CTACCGTCN 119

(2) INFORMATION FOR SEQ ID NO: 2775:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 117

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03234

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2775:

GATCCCAGCT GTGTGTCACC AGCAGCTTTC CCAGCTTCTC TGTGAGGGTC ACTGCTGCCC 60

ACTGCAGGGT CCCTGAGGTG AAGTAAACGC CGGCGCTGGG CTTGGCCAGN CGGCAAA 117

(2) INFORMATION FOR SEQ ID NO: 2776:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 115

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03235

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2776:

GATCATTCCC ATTTTCATAGG TTTTATTGT GGAATAGTCA ACTTAATATA GATTCACTTT 60

CAATTTGCAT GTATAANGTA ATACTCAATA AAATTTTTC CATTNATTTT NCAAA 115

(2) INFORMATION FOR SEQ ID NO: 2777:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 217

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03236

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2777:

GATCCTGGGG TTGGTCTGCT TTGTGTATGG TACTTGAAAC CACGCTGTAA TTATTGTCCT 60

GTTGCCAAAC AAAAGCCAGT CATGTAAGTC TAGAAGCAGT GACTGGTGGG GCTTTCAGAC 120

AGTTCCATGC TGATGTATCA GGCCATCTGT GTCATGCTTA TGTATTATGG CAAGAAGAGG 180

AAAAGTGGAT TAATAAATAC GTTTTNNNNN NGTTAAA 217

(2) INFORMATION FOR SEQ ID NO: 2778:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 114

(B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03237  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2778:  
 GATCCTNAGC AACGAACACC TGCACCTAGA AAAAGTGGAC AGCTTCTNCC AACCACACCC 60  
 TACCCATGGN ACTGTATGCA ATTAACCTCT GGAAACGCCC CGTAAATNCN AGTN 114

(2) INFORMATION FOR SEQ ID NO: 2779:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 113  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03239  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2779:  
 GATCCAAAAT TACCTTAAAT GGAGTTAAGT AGGCTTTGCA CTAAATGGAT ATAAAAGAGG 60  
 CTGTCTGGNC TNCTATGAAA TNATGATTAA AATCCTTTGT GTTGTCTTTT AAA 113

(2) INFORMATION FOR SEQ ID NO: 2780:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 359  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03240  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2780:  
 GATCCTTAAA GAAGGTGTGG GGTCTTTCCC AACCTGAGGA TTTCTGAAAG GTTCACAGGT 60  
 TCAATATTTA ATGCTTCAGA AGCATGTGAG GTTCCCAACA CTGTCAGCAA AAACCTTAGG 120  
 AGAAACTTA AAANTATATG ATTACATGCG CAATACACAG CTACAGACAC ACATTCTGTT 180  
 GACAAGGGAA AACCTTCAAA GCATGTTTNT TTCCCTCACC ACAGCAGAGC ATGCAGTACT 240  
 AANGCGATAT ATTTNTGATT CCCCATGTAA TTCTTCGGNG GNNGGNCAGT GCAGTNCTCT 300  
 TTCGGAAGCT TAAGATGGCC NTGNGGCCTG NCCNNNNGGN CATATGCCCC TGAAGGGCN 359

(2) INFORMATION FOR SEQ ID NO: 2781:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 191  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03241  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2781:

GATCTAGGGC AGGCTGTCTT CCAGTCCATG TGTTCCTCGGT CGCCGTAGAC AGCGCTCTGG 60  
 CTACCACCGT GAGGCTACTT GAACTGTCAG GGGCATCTGC CTAAACCAGA ATCTTTTGTC 120  
 AGAAACCTTA ACCCAACAAA ACAAATCTTG AGTAGCTCAT GCCCGGCTCT TAGGAATTTT 180  
 GTCTGTTTAA A 191

(2) INFORMATION FOR SEQ ID NO: 2782:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 111
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03242

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2782:

GATCACTCAA CAGCACTGTN ATGTATTATT TNNAATGAGG TGCCTTTTTT AACTGACCAA 60  
 ATGCTGCCTT GTTTGGCCCC TAANTCAATA AAATATGTTA AAATTTGTAA A 111

(2) INFORMATION FOR SEQ ID NO: 2783:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 109
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03243

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2783:

GATCTAAGAA ATAGAATTAG GGAGAGTTTA CACTTACTTA CCTATATAAA AGCAGATTTT 60  
 CNTGGAAGAA ACCCTTTTTT TTTTTTTTTT TAAAANAGNA NCANCCAGN 109

(2) INFORMATION FOR SEQ ID NO: 2784:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 340
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03244

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2784:

GATCCAGAAG CTGGTGGACG TCACCACGGC ACAGGTGTAA CNTCCATGTN CCGTGTGAGC 60  
 AGAGTCCCTA CCAACGGGCA GGTCTGCATC CGGGGAGAAT GCAGCTGCTT CTGGCGACAA 120  
 TCCTGCTAGT AAACACTGGT CTTGCGGTGAG CAACGAACAC TCGCCTGGGN TGGGAAACTG 180  
 CATGCCCACT TTNTGGGAGG GGTTAGTGCA GGTGCCGTGG ACAAAGGACA ACATTTCTNT 240  
 GGGGCTTTTT AACTTTTATT CTAAGACTC TAAAGGCGTT GATTTCAACC CTCCTTCACT 300  
 CTGGCTTCTT CAGGNAACCC ACGTGGTCTC CTGTNAGNTN 340

(2) INFORMATION FOR SEQ ID NO: 2785:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 108



(B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03245  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2785:  
 GATCTTTAAG ACAACAAGTT AGGTTCTAC TGGAGTTACC TGCCAGANTG GCCTCTTAAT 60  
 TAACTCAGGT AATGAAGAGC TAACTGTGTT ATAATCATCT NCCNNNTN 108

(2) INFORMATION FOR SEQ ID NO: 2786:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 108  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03247  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2786:  
 GATCTGCTAA AAATGGCAAT TGTAAGATNA TGTTGTATGT AATGTACATA TGGAGAAAGA 60  
 ATGTATTTTN TCCATTTTCCT TAATAAAATG TTATATATGG NTGCTAAA 108

(2) INFORMATION FOR SEQ ID NO: 2787:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 107  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03248  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2787:  
 GATCTCTGAG GCTNCGGTCA CCACCCACAA GTTGTGGCCT TGGATACCAC ACTNCAGTTG 60  
 GGTGGTGATG GGGTNGTGCC TTCTAACTTT TNCCNTATCT TTACCGN 107

(2) INFORMATION FOR SEQ ID NO: 2788:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 125  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03249  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2788:  
 GATCAGTAAG GATGACTGGT GTTTCTGAC TTTNACAAAA TTAAGTGTGTT GTTTTCATTA 60  
 AAAAAAAGC ATAANCTATG TTTCTNATTA CTATTAGAAT TATTAAATTT CAAAATGAAT 120  
 CAAA 125

## (2) INFORMATION FOR SEQ ID NO: 2789:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 104
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03251

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2789:

GATCGATTCT NTGACACAAA CCCACCAAT TGTNAATGCA AGTTTTTATT TGGCTGTATA 60  
TACAATTTAA GCTATTAAAA TTTGTACAAT ATTTACAAAT NAAA 104

## (2) INFORMATION FOR SEQ ID NO: 2790:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 104
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03252

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2790:

GATCATTACA TCTNAGATGT ACGTNGGTTT AGTCGAAAG GTGGGACGAT TTGAAGGGGA 60  
GGNACTTTCA GGTCATAGGC GGATTAAAN ATGTCCTGAT TAAA 104

## (2) INFORMATION FOR SEQ ID NO: 2791:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 104
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03253

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2791:

GATCCAAGCT ATGANATANC CAACAGTATT CAAGANGCAA CCAGCACCAT CATGTGATAA 60  
TGGTACTATG GCATATATGC AACATTAAAN TTTTAANTTA GAAA 104

## (2) INFORMATION FOR SEQ ID NO: 2792:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 132
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03255

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2792:

GATCCAGTCT TAATTTGAGC ATGAGAGCAA AATTTAGTCA TCTACACAAG AAGCAAAAGC 60

AAGGAATAGT TGTTGGGTTT TNGTTTTTTG GTTGTGTNT TTTTTGTTN GTTAGGNANG 120  
 ANGTGTTCCC GN 132

(2) INFORMATION FOR SEQ ID NO: 2793:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 102
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03257

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2793:

GATCCAGGTG GTGTTACATG TCCATTTTATGTTTGGGGG CTTTGTAGCCC NACAAAACAC 60  
 CTTCACTAGA GCCTTGATTA AAAGGAAACC TGNAGACTCA AA 102

(2) INFORMATION FOR SEQ ID NO: 2794:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 100
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03258

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2794:

GATCTTCCCC TAGGGGGCCC TCTTACTCCT NCCTCTCTCC TCCTCCTTCC CCATTGCTGT 60  
 AAATATTTNA ACGAAATGGA AAAGAAAAAA AAAAGACAAA 100

(2) INFORMATION FOR SEQ ID NO: 2795:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 100
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03259

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2795:

GATCACACAT CAAGACTATC TACAAAANTT TATTATATAT TTACAGNAGA AAAGCATGCA 60  
 TATCATTAAT CAAATAAAT ACTTTTATC ACAACACAAA 100

(2) INFORMATION FOR SEQ ID NO: 2796:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 98
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03261

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2796:  
 GATCTAAATA CAAAGGATAT ACAGTCTTGA NTCTAAAATA ATTTGCTAAC TATTTTGATT 60  
 TTTCAGAGAG AACTACTAAT AAAAATCTAA AAGGTAAA 98

(2) INFORMATION FOR SEQ ID NO: 2797:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 97  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03263

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2797:  
 GATCGTNCCT ATAAATAGTA GGACCAATGT TGTGATTAAC ATCATCAGGC TTGGAATGAA 60  
 TTCTCTCTAA AAATAAAATN ATGTATGATT NGTTAAA 97

(2) INFORMATION FOR SEQ ID NO: 2798:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 96  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03264

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2798:  
 GATCACTAAA GTATATCTTT AATTCTGGGA GAAATGAGAT AAAAGATGTA CTTNTGACCA 60  
 TTGTAACANT AGCACAANTA AAGCACTTGT GCCAAA 96

(2) INFORMATION FOR SEQ ID NO: 2799:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 93  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03267

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2799:  
 GATCTGCTGT CTCCGTCCCT CTTGGGTCCC AGCAGCTGTC CTGCAGCTGT CAGCAGGAGG 60  
 GCCTGGCTTT AATAAAGAGT GGACAACTG AAA 93

(2) INFORMATION FOR SEQ ID NO: 2800:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 93  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03268

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2800:

GATCAAGTTC GAGGAGGCAG TCATCGCTCG AAACCGGGCC CTGGAGGGCC GCTNACCCTG 60

CCGGANATAA AGNATACAGA GAGCCCCTCC AAA 93

(2) INFORMATION FOR SEQ ID NO: 2801:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 89

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03271

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2801:

GATCCATTCT TGTATTGATA GATATTTGAA TGTTTCCAGT TTTTCCTATT ATGAATAAAA 60

CTGCTATGAA CATTCTTGTA TAAATCAAA 89

(2) INFORMATION FOR SEQ ID NO: 2802:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 95

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03274

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2802:

GATCGACAGC GTCCTGGCCT AGGGTGCCGG GGCCTGAAGG TCAGGGTCAC CCAAGCAACA 60

AAGTCCCAG CAATGAAGTC ATCCACTCCT GCAA 95

(2) INFORMATION FOR SEQ ID NO: 2803:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 84

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03279

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2803:

GATCTCTACA GAGAGAAGTG GAAAATGCTG TATCAAGGGT GGGCTTAGCT GTGCCTTTCC 60

AATAAAGATG TGAGAAGCTT CAAA 84

(2) INFORMATION FOR SEQ ID NO: 2804:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 79

(B) TYPE: nucleic acid

(C) STRANDNESS: single

- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
- (B) CLONE: HUMGS03281
- (ix) FEATURE:
- (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2804:
- GATCTTTGCC CCTGGTATGC ATTTNTGGAC TCCACTGAAT CCTGNGAAAA AAAATTAAAC 60
- TTCCTTCTTA CTGCCAAA 79
- (2) INFORMATION FOR SEQ ID NO: 2805:
- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 79
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
- (B) CLONE: HUMGS03282
- (ix) FEATURE:
- (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2805:
- GATCCTGTCA GTTCCATNAG CTATTCCTCT TTGGTTGGC TTTTGTATAT NATTAAAATA 60
- ATNTTTAATT CCTTTTAA 79
- (2) INFORMATION FOR SEQ ID NO: 2806:
- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 77
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
- (B) CLONE: HUMGS03283
- (ix) FEATURE:
- (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2806:
- GATCAATTTT TATAAAAATC GAGACAGTTC TGTGGTTAAA TCTACAAATT AAAGGGAAAT 60
- TAGAAGTTGG CGTGAAA 77
- (2) INFORMATION FOR SEQ ID NO: 2807:
- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 77
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
- (B) CLONE: HUMGS03284
- (ix) FEATURE:
- (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2807:
- GATCTATTTT ATGCATATTG TTTATAAAGA CACATTTACA ATTTACTTTT AATATTAAAA 60
- ATNACCATAT TATGAAA 77
- (2) INFORMATION FOR SEQ ID NO: 2808:
- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 75

(B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03286  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2808:  
 GATCTTCAGT AAGTCTCTCA GGCTCTCTGA GCTTGTTTCAT CCTTTGTTTT GAAAAAATTA 60  
 CTCAACCAAT CAAA 75

(2) INFORMATION FOR SEQ ID NO: 2809:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 74  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03289  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2809:  
 GATCCCTTCA CAGCAGTAAA CCAGCTCTTT GGAACCGATT CCATCACCCC AATAAAGGAG 60  
 CTCTTCACAG CAAA 74

(2) INFORMATION FOR SEQ ID NO: 2810:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 73  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03294  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2810:  
 GATCTGTTTC TTTTAAATT TACTTTTNN CTTTCCGGTT TGCCGGAATA AACAGGACCT 60  
 TTGACATTTG AAA 73

(2) INFORMATION FOR SEQ ID NO: 2811:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 66  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03296  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2811:  
 GATCCATTCT AAGACTTATT GGCTGTTTGG AAGTGATAGC AAATAAAANC CACCTTGAAC 60  
 TGGAAA 66

(2) INFORMATION FOR SEQ ID NO: 2812:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 67  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03297  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2812:  
 GATCCGAGGG GGAGGGGTGG GAAGGGGAGA AAATNAAATA AAAGATAATT ACTGAACACG 60  
 CCGNAAA 67

(2) INFORMATION FOR SEQ ID NO: 2813:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 63  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03299  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2813:  
 GATCATTGAA TTTAAGGCC ACCCCAAGTC CAGANTGACC TCGCAAGACC CTTAACTCAC 60  
 AAA 63

(2) INFORMATION FOR SEQ ID NO: 2814:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 62  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03300  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2814:  
 GATCTTTTGT ACTTNTNATA ACCTAATGTC AGACTAAGAA AAATAAAATA TCTGAGAGTA 60  
 AA 62

(2) INFORMATION FOR SEQ ID NO: 2815:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 60  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03304  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2815:  
 GATCCCTTCG AGACTAANTC TGTTACCACT CATGAAACAT TAAAACCTAC AAGCCTTAAA 60



## (2) INFORMATION FOR SEQ ID NO: 2816:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 68
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03305

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2816:

GATCTTTGTC TTTTGTCTATG ACAAAGCATT TATTTAATAA AGTTATGCAN TCAGTTAAAA 60  
 AAANCAAA 68

## (2) INFORMATION FOR SEQ ID NO: 2817:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 58
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03306

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2817:

GATCAGATTT TTTATGCCAT CCTCATTAGT TTTCCAATAC AATATAAGTT GAAACAAA 58

## (2) INFORMATION FOR SEQ ID NO: 2818:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 58
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03307

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2818:

GATCTCAGAC TTCTGGCTTC CACAAGTGA ACAATAAATT TATGTCGTTT AAGCCAAA 58

## (2) INFORMATION FOR SEQ ID NO: 2819:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 57
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03308

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2819:

GATCCACTGG GTGAATCCTC CCGCTCAGAA CCAATAAAAT AGAATTGACC TTTTAAA 57

## (2) INFORMATION FOR SEQ ID NO: 2820:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 56  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03310
- (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2820:  
 GATCTGTGGT CATTGTCCCT CTGCAGAATA AAGATTGCTC AGGCCTGCCT GGCAAA 56
- (2) INFORMATION FOR SEQ ID NO: 2821:
- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 59  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03311
- (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2821:  
 GATCTTTGGT TTGTTTCCAG GTTTGGTTAT TATNAATAAA GTTGCTGTGA ATACTTAAA 59
- (2) INFORMATION FOR SEQ ID NO: 2822:
- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 56  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03312
- (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2822:  
 GATCTTCATT GGGGGATTGA GCAGCATTTA ATAAAGTCTA TGTTTGTATT TTGAAA 56
- (2) INFORMATION FOR SEQ ID NO: 2823:
- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 54  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03313
- (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2823:  
 GATCTAAGAA ATAAAGAGAA ATGTTTCANT TTGCATTGAA ATAGGAAAAC GAAA 54
- (2) INFORMATION FOR SEQ ID NO: 2824:
- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 53

(B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03315  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2824:  
 GATCATNACT GGCTTTGCGC ATCGAGGGGC CATTAAAGAG TCTACTTTTC AAA 53

(2) INFORMATION FOR SEQ ID NO: 2825:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 52  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03318  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2825:  
 GATCTTTTTTA AAACGTGCAAG TGTTGAATAC TAGAGGTTGT TAGACNNTTA AA 52

(2) INFORMATION FOR SEQ ID NO: 2826:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 51  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03319  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2826:  
 GATCTTGCCA CTGTAGTCCA GGCTGGGCTA CGGAGAGACC CTGCCTCCAA A 51

(2) INFORMATION FOR SEQ ID NO: 2827:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 54  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03324  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2827:  
 GATCCTTGCT GATAAATATA ACCATCAATA AAGAAGCATT CTTTTCCTCAA GAAA 54

(2) INFORMATION FOR SEQ ID NO: 2828:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 50  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single

- (D) TOPOLOGY: linear  
(vii) IMMEDIATE SOURCE:  
(B) CLONE: HUMGS03325  
(ix) FEATURE:  
(D) OTHER INFORMATION: "N"=unidentified base  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2828:  
GATCTCACCA CACTGCAACC TCTGGCGACA GAGCGAGACT TGGTTTCAAA 50
- (2) INFORMATION FOR SEQ ID NO: 2829:  
(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 50  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear  
(vii) IMMEDIATE SOURCE:  
(B) CLONE: HUMGS03326  
(ix) FEATURE:  
(D) OTHER INFORMATION: "N"=unidentified base  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2829:  
GATCCACCCA CTCTCTGAAA CTTCTTTGCT AATAAAACAT TCCTACTAAA 50
- (2) INFORMATION FOR SEQ ID NO: 2830:  
(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 55  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear  
(vii) IMMEDIATE SOURCE:  
(B) CLONE: HUMGS03331  
(ix) FEATURE:  
(D) OTHER INFORMATION: "N"=unidentified base  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2830:  
GATCTTTTTT TTTCTTACA GACACCCATA ATAAAATATC ATATTAAAAT TCAAA 55
- (2) INFORMATION FOR SEQ ID NO: 2831:  
(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 53  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear  
(vii) IMMEDIATE SOURCE:  
(B) CLONE: HUMGS03332  
(ix) FEATURE:  
(D) OTHER INFORMATION: "N"=unidentified base  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2831:  
GATCCAGGGG GAAATGCTGG AAGTCAATAA AACTGAGTTT TGAGAGCTTG AAA 53
- (2) INFORMATION FOR SEQ ID NO: 2832:  
(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 131  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear  
(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03356

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2832:

```
GATCCACATA AAAAGAAATG TGAAGTTTTC TTTTACTATC TTTTCATTTA TCAAGCAGAG 60
ACCTTTGTTG GGAGGCGGTT TGGGAGAACA CATTTCTAAT TTGAATGAAA TGAAATCTAT 120
TTTCAGTGAA A 131
```

(2) INFORMATION FOR SEQ ID NO: 2833:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 431  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03374

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2833:

```
GATCTGCTGA TTGCATTATT TTAATTTGCT TTTCTGGGAA AGCAGTTTTG CTAAAAGCTG 60
TACAGACTTT TNCTTTTGTA CCTAGCAGTA CTTTATATAG TATAGCTTTG GGCCATGTAG 120
CATTTTAAGA CTCAATTTTA AAAAATNATT AATCTGTTGC TGACTCTTAA TTCCTATTTTC 180
AATATGTGTT TCCTTGAAGA ATTCAGGATA CAACTTCTTG TGTATGACAG CTTTCCTTCA 240
CACACTATTT TNGTGGGTGT GTATATATCT GATTTGGGAA GAATTTAAAA AACACATAGC 300
TTTTNAATTN GTTTGAAACA GACTTTCTGC CTGTGACATT TMNGCNTTTA NCCAATTAAA 360
GAAGCCAATG GCATTTTNGG TTTTATATNG TGTTTCCAC TAGTATATCC CTGTGGATTT 420
GTTTGTGCCC N 431
```

(2) INFORMATION FOR SEQ ID NO: 2834:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 429  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03375

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2834:

```
GATCCCATGG GTGGCACATT GGGACTTCTN TCCCTCCCCC ATCTACACAG AAGACTGTCA 60
CCATGCTGAC AGAAGCCTGT CCTTGTAAGG CCCAGCCTTC CAGGGGAACA CTCAGACATG 120
TTCATTCTCT TCCTGCTTCT GCTCTGGGCC GGTGGGTGGC TCTCAGAAAA TACTTGCTGC 180
TGGCAAAAGG CCTGTACTCA GGCATTTGCT TTGACTTGAT GTTGCCAAGG GACTGAGGCC 240
ATTGGCAGGC TTAGTACCAC CTGCTCCTCA TCTTAGGAGT CTCCTTTTCA AATAATTAGG 300
CTCTGTTCCC ATTTTAAAC TCTGATATTG GGCTTCACCT GTGACTGGAC ACTTTACTAG 360
AGGCCCATTT NACTAAACA NTAAAATCTA AATAAATTGG AAGGAATAAC AACNACAAAG 420
GGNTAGAAA 429
```

(2) INFORMATION FOR SEQ ID NO: 2835:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 427  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03376

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2835:

```

GATCTGGGCT TCCTNACTTC TGGAGAAGTG GCCATCCCAT GCCCACCTTT NCCATGGAGG 60
AGTGGGCCCT GCCAGCTGCC ACAGCTGCAT GACCTGCTTC CCCACCCAC GGTGTCGTTT 120
TNTTTTNAAG GGTCACTGT CCTCACTCAC CCAGCCAGCC CTTAGGTGC NTTCTACTCC 180
CAGTGCCAAA GCCAGACCAC TGGGGTTTCC TGCTGCAGGA ATTGGGGGCT GGGAACAGCA 240
GAGGGGATAG AAGTNTGGTG GAGGTGGAGT GGGCACGCNT TAGCCTACGG AAAGGNCCAT 300
TTTTTGGGNC CACTGAGCTG CACTGGGATT TTTTANTTCT GGNCCTGANT NCCTTTAGGG 360
NAAATAACAC AGCAGGACCN CGGTGGGGAT TTTAAGNACT TTTTTTTNNA GATTNAAANG 420
GNTTCTN

```

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## (2) INFORMATION FOR SEQ ID NO: 2836:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 416  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03377

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2836:

```

GATCCTGATG CTGCCAGAGC CATTGTGGAT GCTTTACCAC CACCCTGTGA ATCTGCCTGC 60
ACAGTACCAA CAGACGTGGA TAAGTGGTTC CATCACCAGA AAAACTAATG AGATTTCTCT 120
GGAATACANG CTGATATTGC TACATCGTGT TCATCTGGAT GTATTAGAAG TAAAAGTAGT 180
AGCTTTTCAA AGCTTTAAAT TTGTAGAACT CATCTAACTA AAGTAAATTC TGCTGTGACT 240
AATCCAATAT ACTCAGAATG TTATCCATCT AAAGCATTTT TCATATCTCA ACTAAGATAA 300
CTTTTAGCAC ATGCTTAAAT ATCAAAGCAG TTGTCATTTG GAAGTCACTT GTGAATAGAT 360
GTGCAAGGGG GNGCACATAT TGGNTGTATA TGTTTNCNT ATGTTAGGGG ATAAAN 416

```

## (2) INFORMATION FOR SEQ ID NO: 2837:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 398  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03378

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2837:

```

GATCAAAGAT GAGGCCACAA GGACACCAGC AACTGAAGAG GCTGCCTACT TGGTATCAAG 60
ACTGAAGGAG AACTACGTTT TGCTGAGCAC TGATGGCCCT GGGAGGAACA TCCTGAAGTT 120
TAAGCCCCCA ATGTGCTTCA GCCTGGACAA TGCACGGCAG GTGGTGGCAA AGCTGGATGC 180
CATTCTGACT GACATGGAAG NGAAGGTGAG AAGTTGTGAA ACGCTGAGGC TCCAGCCCTA 240
AGCCAGCCCT GCTCTGCCTA AGTGTACTCC AGAAGAACT CATCTCATCC AAATACACGC 300
TATTGAGAAG GCGAGCCTGA CCTCCCTCTT ACAGATAAAG TCAGCTTTCA GAGGCTCAGG 360
GTGGGGGGGC CTGCCCCGAGG CCATAATGCT ACCCACCN

```

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## (2) INFORMATION FOR SEQ ID NO: 2838:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 408
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS03379
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2838:

```
GATCGCACAC ATGCTTTGTT TGGAATATGG AGTGAACACA ATTATGTACC AAATTTAACT 60
TGGCAAACCT NCTATTGCCT GTCCCATGTG CATCTNATTT AAAATTTCCC CCATGGAAAT 120
CACTCTCCTG TTGACTATTT CCAGAGCTCT AGGTGTTTAG GCAACGTGTG GTGTCCTGAG 180
ANGGCCATAG CGCCATCATG GGCTGATTTT AATTACCAGG TCCCCCAGAA GCAGGTGGGA 240
GGCTCTGCTT CCTGCTGGCC GTTCTGCAGC CTGGACCTGT GGACCCTGGT TGTAAAGNGT 300
AAATTGTTTT CTTANGGAAA CCAGTGTAC CTTNTNTNAA CCTTTAAANT TTAAAAATAN 360
TTTGGGGGAA NAAATTNCNG NNACNGGAGG GTTAAAATTT ANCNNANN 408
```

(2) INFORMATION FOR SEQ ID NO: 2839:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 388
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS03380
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2839:

```
GATCCACCAG CTGAGCAGGG CGGGGCTGAG TAAATGCCGG CTTACCATCT CTACCATCAT 60
CCGGTTTAGT CATCCAACAA GAAGAAATAT GAAATTCAG CAATANGAAN TGAACAAAAG 120
ATTGGAGCTG AAGACCTAAA GTGCTTGCTT TTTGCCCGTT GACCAGATAA ATAGAACTAT 180
CTGCATTATC TATGCAGCAT GGGGTTTTTA TTATTTTNAC CTAAAGACGT CTCTTTTGG 240
TAATAACAAA CGTGTTTTTT AAAAAAGCCT GGNTTTTCTC AATACGCCTT TAAAGGTTTT 300
TAAATTGTTT CATATCTGGT CAAGTTGAGA TTTTTTAAGA ACTTCATTTT TTAATTTNGT 360
AATAAAAGTT TTNCAACTTT GATTTTAN 388
```

(2) INFORMATION FOR SEQ ID NO: 2840:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 80
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS03381
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2840:

```
GATCTTGCTG AAAGTGTTTC TAAAGATAGC ACCACTTTTT TTTTNAAGC TTTTATATAT 60
NAAAAAACGT ATCATGCAAA 80
```

(2) INFORMATION FOR SEQ ID NO: 2841:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 384
  - (B) TYPE: nucleic acid

- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS03382
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2841:

```
GATCTTGTCC TAGCCTTTTN ACTTTTGCAA TTTCAGTATC TTCATCTCTA AACTAGGGAA 60
ACACTNGGAT TCTTTCTTAG CTGTGGGGGA AGGTATTTGG TTAGATGACT TTGAATGAAT 120
AGACTGCTGT GCTGAAAGAG CTTTATCACA CTGTCTCAAA GTATGTAAAG ATACATAGGT 180
GGATGCTCTT ACTGCAGCAG TCATGAATAC ATTTTGTAGCC ATTTACCTAA GGAAAAAGAC 240
AGTTTTTCTA GGTACCATGA AGGAAGATTG ACCCTGTTGG TATGCCTGTG GGGGTGGGAT 300
GTGAGTGGGA CTGATAAACT GATACTTTTG GTTCGTATGT ACATACTGGN AGAATCTTCA 360
TANTAAATGN GACTACACAA CAAA 384
```

(2) INFORMATION FOR SEQ ID NO: 2842:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 376
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS03383
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2842:

```
GATCCAGGGC AAGGCCATTG GGATATTCTG AACTTTGAAT ATTTTGTTTT GTGCAGAGAT 60
AAAGACCTTT TCCATGCACC CTCATACACA GAAACCAATT TTNTNTNTNA TACTCAATCA 120
TTTCTAGCGC ATGGCCTGGT TAGAGGCTGG TTTTCTCTCT TTTCCTTTGG TCCTTCAAAG 180
GCTTGTAGTT TTGGCTAGTC CTTGTTCTTT GGAAATACAC AGTGCTGACC AGNCAGCCTC 240
CCCCTGTCCC CTCTATGACC TCGCCCTCCA CAAATGGGAA AACCAGACTA CTTGGGAGCA 300
CCGCCTGTGA AATACCAACC TGAAGACACC GTTCATTAG GCAACGNACA TAACAGNAAA 360
TGAAGGTGGA CANGCN 376
```

(2) INFORMATION FOR SEQ ID NO: 2843:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 370
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS03384
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2843:

```
GATCCCAAAC CTAGCCCCCT AGTGGGACAA GGACCTGACC CTCCTGCCCC CATAACAAC 60
CCATTTCCCC TGGTGAGCCA CTTGGCAGCA TATGTAGGTA CCAGCTCAAC CCCACGCAAG 120
TTCCTGAGCT GAACATGGAG CAAGGGGAGG GTGACTTCTC TCCACATAGG GAGGGCTTAG 180
AGCTCACAGC CTTGGGAAGT GAGACTAGAA GAGGGGAGCA GAAAGGGACC TTGAGTAGAC 240
AAAGGCCACA CACATCATTG TCATTACTGT TTTAATTGTC TGGCTTCTCT CTGGACTGGG 300
AGCTCAGTGA GGATTCTGAC CAGTGACTTA CACAAAAGGC GCTCTATACA TATTATAATA 360
TATTCGCTTN 370
```

(2) INFORMATION FOR SEQ ID NO: 2844:



(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 367  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03385

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2844:

```
GATCTGTCAT CTGGTGCTGC CAGCTGTGCT CACTCTGGTT TTCTGCTCAG GGTCTGAAGC 60
AGCTGCTGTC TNCCTCCTCT GCCCCATCC CCTGGCTCTC CCCTGGGCAC AGTGCCACTC 120
CCTTGGAAGG GAGGGAACCA CCCGTNAGCC CCAGGGCTTG GNAAGCCTGA GCGGTGNCT 180
CTGCCTCTCC CTGCCCCCAG CACAATTGGC AGAGATGAGG CGGGTGGTGG ACGGCTGGGG 240
GTGTCGTGGC AGGGTCTNGC ACAGGGNCAT GTCCTGGCTG TAACCCAGGC AGTGGGAGGT 300
CTGCAAGCCT GGTTCATGGC TTCACAGCAN GGTNCCTGTT GGACAGACAT ATCTGNATAT 360
TTATNAA 367
```

(2) INFORMATION FOR SEQ ID NO: 2845:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 366  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03386

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2845:

```
GATCTCCAAC ACTATCCGAT AAAGTAGAAG CAACTGAGGT ACCGTGAAAG AGAAAGGAGC 60
TGGAAGTGAG AAAAAGCAGA GGATTCGGAC GGAGAGCGCG AGGACTCGGC GGCTGAGCGC 120
GCCCCAGACG AGCTAGAGGC GCTGCTCAAC AAGACTATGC GCATTCGCAT GACAGATGGA 180
CGGACACTGG TCGGCTGCTT CCTCTGCACT GACCGTGACT GCAATGTCAT CCTGGGCTCG 240
GCGCAGGAGT TCCTCAAGCC GTCGGATTCC TTCTCTGCCG GGGAGCCCCG TGTGCTGGGC 300
CTGGCCATGG TACCCGGACA CCACATCGTT TCCATTGAGG TGCAGAGGGA GAGTCTGACC 360
GGGCCN 366
```

(2) INFORMATION FOR SEQ ID NO: 2846:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 365  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03387

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2846:

```
GATCCCCCA AGNGAAGTG TGAGACAATG GTCTATCACC CCAACATTGA CCTCGAGGGC 60
AACGTCTGCN TCAACATCCT CAGAGAGGAC TGGAAGCCAG TCCTTACGAT AAACCTCCATA 120
ATTNATGGCC TGCAGTATCT TTNCTTGAG CCAACCCCG AGGACCCACT NAACAAGGAG 180
GCCGCAGAGG TCCTGCAGAA CAACCGGCGG CTGTTTGAGC AGAACGTGCA GCGCTCCATG 240
CGGGGTGGCT ACATCGGCTN NACCTACTTT NAGCGCTGCC TGAAATAGGG TTGGCGCATA 300
CCCACCCNNG GCCACGGCCA CAAGCCCTGG GCATCCCTTG CAAATANTTN TTGGGGGGCC 360
```

ATGGN

365

## (2) INFORMATION FOR SEQ ID NO: 2847:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 364
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03388

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2847:

```
GATCTAGAGT ATGTTGAAGA AGATGGACAT GTGGTGGTAC GAAAACAATT CCCCTGTGGC 60
CTGCTGGACT GGGTGAAGCC AGAACAGGCT AAGGCATACA GTTCTTGACT TTGGACAATC 120
CAAGAGTGAA CCAGAATGCA GTTTTCCTTG AGATACCTGT TTTAAAAGGT TTTTCAGACA 180
ATTTTGCAGA AAGGTGCATT GATTCTNAAA TTCTCTCTGT TGAGAGCATT TCAGCCAGAG 240
GACTTTGGAA CTGTGAATAT ACTTCCTGAA GGGGAGGGAG AAGGGAGGAA GCTCCCATGT 300
TGTTTAAAGG CTGTAATTGG AGCAGCTTTT GGCTGCGTAA CTGTGAACTA TGGCCATATA 360
TAAN 364
```

## (2) INFORMATION FOR SEQ ID NO: 2848:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 363
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03389

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2848:

```
GATCTGGGGA GGCAGGCATT CCTGAAGGGA ACTAGAGGTG TTACAGAGGA CCCTTACGTG 60
AGAAATAGCT GAAAAGGGCA CTCGCAACCC TGGGCTGGGG AGGAGGAGAG AGTCCCAGAG 120
CTCATCCCCC CTGCTGCCCA GTGCAAACCA CTTNTCCATG CTGCAAAGGA GAAGCACAGC 180
TCCTGCCAGG GTGAGCAGGG TCAAGCCTCT TATTCCAGGA GAAGGGGGCT CTGCCAGGC 240
CCTACTACCN ATTGTNCCCT TCCTCTTCCT GCCCTTGGAA CCCCCTNCCT GTCCCAGGGC 300
CCTTCNAGCC CATTGCTGCC AAGGTGGAGG GANGGATAAA GNCACTTCTG GGTTTTGAAG 360
CCN 363
```

## (2) INFORMATION FOR SEQ ID NO: 2849:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 361
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03390

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2849:

```
GATCTGGGTG TGGCCAAAAA CAATTTTNTT TATTCTGTCT ATCAAATAGT ACTTCTACCA 60
CTGTTTGGAG AAAATTGAAG AAAAGAATAA GATGATTAAA TGAATTCTCT AAAAGAACAT 120
ATTTTAAGAG ACAGAACTTA GACATAACCA AGTAGTTGTA TACCTGATTG TAACAATCAT 180
```

CTTTTATAAA AGCAAAATTA TGCATAAATG TAAAACACCC CTAAACAAAG GGAACAAATG 240  
 ANTTTTTGGT TATATGTTTT TCTTGGCTCA AAGTATCAAT TTATTATTAT AATAGAAATT 300  
 TATAAGTTGC TAGAAAGTCT ATATTTTTTAA CGCACGGAAT AAAANTATGT TTTCTATTAA 360  
 A 361

(2) INFORMATION FOR SEQ ID NO: 2850:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 355
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03391

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2850:

GATCTGTCTC CAAGACCTTG GCCTCTCCTT GGAGGACCTT TAGGTCAAAN TCCCTAGTCT 60  
 CCACCTGANA CCCTGGGAGA NAAGTTTGAA GCACAACCTCC CTTAAGGTCT CCAAACCAGA 120  
 CGGTGACGCC TGCGGGACCA TCTGGGGCAC CTGCTTCCAC CCGTCTCTCT GCCCACTCGG 180  
 GTCTGCAGAC CTGGGTTCCC ACTGAGGCC CTTGCAGGAT GGAACCTACGG GGCTNGNAGG 240  
 AGCTTTTGTG TGCCTGGTAG AAACATTTTC TGTTCAGTC ACATTGGCCA TCACTCTTGT 300  
 ACTGNCTGCC ACCGNGGAGG ANNCTGGTGA CAGGNCAAAG GCAGTGGAAG GAAAN 355

(2) INFORMATION FOR SEQ ID NO: 2851:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 344
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03392

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2851:

GATCTAGTTC TACGTATTAC ACAGGTGTAA TATCTGTGAG TGTAATAAAC TGGAACGTGA 60  
 CACTGATTAA CATGNCAGTT TCTCTTTTGT TGTCTTATC TGTACTGTAT TATAGTATGT 120  
 GGGTATAAAT ATCTACAAGT ATACACACAT ATGTNCTNGT ATTCCACTAT TGTAACCTGG 180  
 AAGAAAGACT ATGNATNCCC TNTTNNAATT CCGTACTGGT ATNGTGTGA TTTAAAAAGC 240  
 AAAATNCGGC TCTATTTAGT TGTATAATAT TAGAGGGTAC TNNGCTTGNN CACAATTCCA 300  
 AGTGGCCTTA GAGCATTGTT TAGCTNNCCG AAGTATATAT AANN 344

(2) INFORMATION FOR SEQ ID NO: 2852:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 341
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03393

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2852:

GATCTATGAG CCTGTNTNGG ACAGCCAGAT GGTCATCATA GTCACGGTGG TGTCGGTNTT 60  
 GCTGTCCCTG TTCGTNACAT CTGTCCTGCT CTGCTTCATC TTCGGCCAGC ACTTGCGCCA 120

CNGCGGATGG GCACCTACGG GGTGCGAGCG GCTTGGAGGA GGCTGCCCCA GGCTTCCCG 180  
 CCATAGCAAC CATGANTGGC ATGGCCACCA CCACGGTGGT CACTGGAAC NAGTGTGACT 240  
 CCTCAGGGTT GAGGTCCAGC CCTGGCTGAA GGAAGTGTNA CAGGCAGCAG AGACTTGGGA 300  
 CATTGCCTTT NNTAGCCCGA NTACAAACAC CTGGACTTAA A 341

(2) INFORMATION FOR SEQ ID NO: 2853:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 567
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03394

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2853:

GATCTCAAGA CCAAAGACAG ATGTCAGTGG GCTGCTCTGG CCCTGGTGTG CACGGCTGTG 60  
 GCAGCTGTTG ATGCCAGTNT CCTCTAACTC ATGCTGTCCT TGTGATTAAA CACCTCTATC 120  
 TCCCTTGGGA ATAAGCACAT ACAGGCTTAA GCTCTAAGAT AGATAGGTGT TTGTCTTTT 180  
 ACCATCGAGC TACTTCCCAT AATAACCACT TTGCATCCAA CACTCTTCAC CCACCTCCCA 240  
 TACGCAAGGG GATGTGGATA CTTGGCCCAA AGTAACTGGT GGTAGGAATC TTAGAAACAN 300  
 GACCACTTAT ACTGTCTGTN TGAGGCAGAA GATAACAGCA GCATCTNGGN CCAGTCTCTG 360  
 CCTTAAANGG AAATCTTTAT TAATCACGNA TGGTTCACAG ATAAATTCTT TTTTAAAAA 420  
 AANCCCANNC TCCTNNGGGAT GCACANCCTG TCAAGNGTCT TTTTACACAC AANTTTCAGG 480  
 TTTNNCATCA CGGGGCTTTG ANTTNAGGA AATNAAAGGN GGGACAAATT TNGTTNGTTT 540  
 ACNCTATGGT NCTTTNNTAA NAAACNN 567

(2) INFORMATION FOR SEQ ID NO: 2854:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 349
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03395

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2854:

GATCTTTACT TTTTACTTT TTATTCATCT TTGTGTTTTT ATTTATCTAA AATGGGTATT 60  
 GATTTTAAGG ACGGTTTTGA AAAAGAAAAG TGTTGGGAAT GAAGCAAGTG ATTGATTGGA 120  
 AAACATACTG AATGGAAGAA ATATTTAGAT TAAAAATGAG GTAGGTGAA GTTTCTNCTC 180  
 TGAAATNATA GATAAATGGT GAAGATAAGG CTTATTGTGA GGNTTCAGTG AGGTAATATA 240  
 TGCAAAGTAC TTACAATGTT CTGGCACATA GTAATTNATT NNGANAATCG AGCACCTTA 300  
 ATTACCTAGA ATGCAGGGTT GTTAGTTTTT NGGTTGACTT TTGTTTTNN 349

(2) INFORMATION FOR SEQ ID NO: 2855:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 334
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03396

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2855:

```
GATCCGCTGT ATTGTGGAGT ATCAGAACAA GGGCCGCGGG AACGAGNGCG TGCAGTACCA 60
GCATGTGTTA CATAGAAATC TCATTTATTT GGCTACCATT GCAGATGCCA GTCCAACCAG 120
CACTTCAAAA GCAATGGAAT AATCTTTCAA AAGCAATAGA ATAATCTTCC ATTTGGCTGT 180
CGTGAGGAGT AATTGAATGT AATCCATCTC TTACAAAATG GAGACAGGGT CTTTACCAAC 240
TCAACTGGTT AAAACATGAN TGAAACCTCT GTGGCTCTTT CAAAACGTGG AAAATGTGAA 300
GAANGCTACT TAACTTNGGC TGTATTCTCA TGGN 334
```

(2) INFORMATION FOR SEQ ID NO: 2856:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 332  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03397

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2856:

```
GATCGGCCTG CTGCTCCGCA ACTTCGACCG CTACGGCGTG GAGTGCTGAN GGACTCTGCC 60
TCCAACGTCA CCACCATCCA CACCCCGGAC ACCCAGTGAT GGGGGAGGAT GGCACAGTGG 120
TCAAGAGNAC AGACTCTAGA GACTGTCAGA GCTGACCCCA GCTAAGGCAT GGCACCGCTT 180
CTNTCCTTTC TAGGACCTCG GGGTCCCTCT GGGCCCAGTT TCCCTATCTG TAAATTGGGG 240
ACAGTAAATG TATGGGGTCG CAGGGTGTTG AGTGACAGGA GGCTGCTTAG CCACATGGGA 300
GGTGCTCAGT AAAGGAGAGC AATTCTTACA AA 332
```

(2) INFORMATION FOR SEQ ID NO: 2857:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 331  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03398

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2857:

```
GATCCTGGGT GTNTNTGTAA GGGTNTTGCC AAAGGAGGTT AACATTGGAC TCANTGGGCT 60
GGGGAAAGGC AGACCCACCC TTAATCTGAG TGGACACCAT CTAATCAGCT GCCAGCGAAA 120
ATAAAGCAGG CAGAAAANTG AAAAANNTAG ACTGGCCTAG CCTCCCAGCC TACATCTTTN 180
TCCCATGCTG GATGCTTCCT GCCCTTGAAA ATTGGACTCC AGGTTCTTNA GTTTTGGGAC 240
TTGGACTGGC TCTCCTTCCT CCTCAGCCTG CAGACATCCT ATTGTGGGAC CTTGTGTTTC 300
TGTAAGTTCA TACTTAATAA ACTCTCCATA N 331
```

(2) INFORMATION FOR SEQ ID NO: 2858:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 351  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03399

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2858:

```
GATCGAGTCT ATACGCTGAA GAAANNTGAC CCGATGGGAC AACAGACCTG CTCAGCCCAT 60
CCTGCTCGGT TCTCCCCAGA TGACAAATAC TCTCGACACC GAATCACCAT CAAGAAACGC 120
TTCAAGGTGC TCATGACCCA GCAACCGNGC CCTGTCCTNT GAGGGTCCCT TAAACTGATG 180
TCTTTTCTGC CACCTGTTAC CCCTCGGAGA CTTCGTAACC AAACNTTTCG GACTGTGAGC 240
CCTNATGCCT TTTTGCCAGC CATACTTCTT TGAGCATCCA GNNTNTNGTG GCGATTTGAT 300
TATGCTTGTT GTGAGGNAAT CATGGGTNGG CNTCNCCNT TAANGGGGTG N 351
```

(2) INFORMATION FOR SEQ ID NO: 2859:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 330  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03400

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2859:

```
GATCCTGGGG GCCTGGGTTG GGGGCTAGGG AGACGCCATG TGATGGACAC TCCAGGGACA 60
CACAGCCTAG CACAGCAGCT TATAATGGGC TCTCCGGGGC CATTGCAAT AACAGCTGCA 120
ATTCCCTGGA TAGACGAGTT GATTTCCTCC CTCTGCCCCT CCCCAGCCA TGCCAGCTGG 180
CCTTTGTAAG TGCAGGAAAC CGAGTAGAAA ATGTGACCCT CCAAATGGAG AAGCTGCAGG 240
CTTTGCCATT GTGAACCATG GTGAAGTGCT TGGAACATAC TGTTCACTCA CTCTAAAGGN 300
GCTGAGACTG TGCTGTTGTT CTCGTTTTTN 330
```

(2) INFORMATION FOR SEQ ID NO: 2860:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 330  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03401

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2860:

```
GATCTGGAAA GGACATGACT TCTGAAATAG CCGCTGCTGG GTTTTAAAAG CTGAGGTCTC 60
TCAAAGTGTG GAGGAGACGT TGCCGTCAGN GGGAGCCAAG TGCCGGGAAG ATGTCTATTT 120
TTTTCTTGT GTATTGAAAA TCATGATGTT TGTTATGACT GCTGATGCGA TTGTNTTTGT 180
AAATNTNATT GTGGCATATA CAGTATTGTC ATACAGTTGA AGAGAAACAA TGTTTCCTAA 240
TGTAAGTNCT CTGAAAATGT TGACACTGTA TATATATATA TNAGGATAGT TTGTNTTTCN 300
NTGTTTGGGG TTTNNNNNTN TTTTCNGNTGN 330
```

(2) INFORMATION FOR SEQ ID NO: 2861:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 396  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03402

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2861:

```
GATCTTAAAC CCAAAGTACG AGAAATGTTT CTGTTGAATG TAATGCTACA TGAATGCTTG 60
ATTTATCAAG CGCCAAAAG GCATTGTATA GTAGGAAATG TAAGTGGGGT GGCTTATGGC 120
TTCTTTATCC TCTGATTCTA GCACTTTCAA GTGAGCTGTT GCGTACTGTA TCATATTGTA 180
GCTATTAGGG AAGAGAAGAA TGTTGCTTAA GAAAGAACAT CACCATTGAT TTTAAATACA 240
AGTAGCAGGG TATTGCCTTT GATTCAACTG TTTTAAGTCC TCATTTTTCT CAAACTAAGT 300
GCTTGCTGTT CCCAAATATG GCAAGGNATA GCTTTTACAC TTTTCCCTG CCAACANNTC 360
NTNGATTGGC TTTGCAGANA TNNAGGTTTG ANTTGN 396
```

(2) INFORMATION FOR SEQ ID NO: 2862:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 330  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03403

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2862:

```
GATCCAAAGT GACCCACCA GGGGACAGCC AGAGGAAGGG GACCATGGGG TATCCNAGT 60
GTCCTGGTCT ATCACCCAG CTTCTTTGTC CCCAGTACC CCCAGCCCAG CCAGCCAATA 120
AGAGGACACA AATGAGGACA CGTGGCTTTT ATACAAAGTA TCTATATGAG ATTCTTCTAT 180
ATTGTACAGA GTGGGGCAA ACACGCCCCC ATCTGCTGCC TTTTCTATTG CCCTGCAACG 240
TCCCATCTAT ACGAGGTGTT GGAGAAGGTG AAGAACCCTC CCATTCACGC CCGNCTACCA 300
ACAACAAACG TGCTTTTTTC CTNTTTGAAA 330
```

(2) INFORMATION FOR SEQ ID NO: 2863:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 329  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03404

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2863:

```
GATCTTATTT TCTGAGAAAT TGATAGCAA TATGCCAGAA AGTGGACCTA GTTATGAATT 60
CCATCTAACC AGACAAGAAA TAGTATCATT ATTCAACGCA TTTGGAAGAA TTTCTACAAG 120
TGTGAAAGAA TTAGAAAAC TCAAGAACTT GTTACAGAAT ATTCATTAAA GAAAACAAGC 180
TGATATGTGC CTGTTTCTGG ACAATGGAGG CGAAAGAGTG GAATTTTATT CAAAGGCATA 240
ATAGCAATGN CAGTCTTAAG CCAAACATTT TATATAAAGT TGCTTTTGTA AAGGAGAATT 300
ATATTGTTTT AAGTAAACNC ATTTTAA 329
```

(2) INFORMATION FOR SEQ ID NO: 2864:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 329  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03405

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2864:

```

GATCACTTCA GCTGCCTGCT GTGGACAAAG AACATCAAAT TACAGCATCA CGAGTGCTAT 60
TNTTGCCTGT GGTGGTCTCC CTGTCCAAGC GGGNCCGCTT TGCAGAGACC AGAGGCATAT 120
CGCGGCTTGA GCTGAAATG CATTNTTGC AGCTTAGGTT GAATTATTTT NCGTTTGCTC 180
TTTCTTCTAC ACGCGCCTGA TGGATAGTGA ACCTATTCAT CAAAAAAGTG CACTGCTCTN 240
CTGTCTATTG TACCGACTTA ACCTCTTCCA CCAAGTCCG CATCTGTGTG TATCATCAAT 300
AAAGTTGGTN GTGCCTTGGN TTGGGCAAA 329

```

## (2) INFORMATION FOR SEQ ID NO: 2865:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 328
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03406

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2865:

```

GATCGGCGTG ACCACCCCTT GCCGGAGGTG GCCCATGTNA AGCACCTNTT TGCCAGCCAG 60
AAGGCACTGA AGGAGAAGGA GAAGGCCTCC TGGAGCAGCC TCTCCATGGA TGAGAAAGTC 120
GAGTTGTATC GCATTAAGTT CAAGGAGAGC TTTGCTGAGA TGAACAGGGG CTCGAACGAT 180
NTGGAAGACG GTTNTNGGGC GGTNCCATGT TCTTTAATCG GTTTNAACGT GCTCGTTNCC 240
CCTNTGGAAA AAGGNCTTNT GTTTACCGGC CCCCTTCCCG AAAAGTTTNN ACAAANGGT 300
GGGGTTGCCC AAGNAGGCC AANAGGNN 328

```

## (2) INFORMATION FOR SEQ ID NO: 2866:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 327
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03407

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2866:

```

GATCTACAGA GTTAGAAATT CGAAACTAT TCCAGGACTA ATTCTTAATC GGCATTATTT 60
ATACAAGAGG TCAAGTAACA TTTACTAGCG CAATACTGCA CTTGTAAATG AATTATAAAC 120
GCTCTTCTGG AATATATTTA AATAACCATT AAAGAACTGC TTATTCATNC TGGACACTGC 180
ATGTNGATGT TGAATCAACT GATGCCAGCA GAAAGCTATT TTGATTTGTG AACATACTGC 240
CTTATTTAAA GGGTCCTGAT TGCTTGATTT TTANGNCATT CATTAAAAAG AAACCAGGAA 300
ACACTTTTGA ANTAACAGCA TANGGNN 327

```

## (2) INFORMATION FOR SEQ ID NO: 2867:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 327
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03408



## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2867:

```

GATCACCCCTC CTCCCAAAAA GCAAGAGCTT GTTTATGGCT GAGGAATCGG CGGATTGTCT 60
GAATGACACA TATACAGAGC CCCCACGGAT TTCTNCACAC TCTGGGTCTG TGCTGGTGGA 120
ACATTGCCAA TNAGTTCTTA ATGAGGCACC TGTGTGTAAA TACATGCTTG GTCTTCTCTG 180
CAGAGAACTG AGGCTAAACT CTGTCCCTAC TTCTGGTTTT GCCCTGTNAT GTCGTAACGA 240
GGTGGGCCTT TTGAGGCCAT TTTAGTTTGA GTTCGAGCCA ACCACCTCTG GTTGTTAGA 300
TGATTGAATA AAAAGGTTCT GAAGAAA 327

```

## (2) INFORMATION FOR SEQ ID NO: 2868:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 326  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03409

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2868:

```

GATCCAATCA CCTCCACCA GGCTCCACCT CGAATACTGG GGATTACCAT TCAGCATGAG 60
ATTTNGGCAG GAACACAGAC CCAAACCATA CCACACACAT TATCATTGTN AAAC TTGTA 120
AAGTATTTAA GGTACATGGA ACACACGGGN AGTCTGGTAG CTCAGCCCAT TTNTTTATTG 180
CATCTGTNAT TCACCATGTA ATTCAGGTAC CACGTATTCC AGGGAGCCTT TNTTGGCCCT 240
CAGTTTGCAG TATACACACT TGCCANGTAC TCTTGGTAGC ATCCTGTTTG GTATCATNGC 300
ACTGGGTCAC ATTGCCTTAC CTAAAN 326

```

## (2) INFORMATION FOR SEQ ID NO: 2869:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 325  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03410

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2869:

```

GATCTATGGA ACAGAGGAGG AGCGATGCAG TTGGGAGAGG AAGCTAGAAG GGTATGGTT 60
GGAGTTCTGT ACAGTGTGTA GTTTCCGACA GGGAAAGAGG ATTCCTCCAA TGCGCCTAGA 120
GAGAAAGCCT GAGCAGGAGA TGATGCAGCA GAGGGGAAGG GCCCTGTGGT GCCGCCGCC 180
TTCCTTCAGC CTCCGAAGGT GATGGAAATG GAGAGTGGAG GACCAGGCCT CCAGCTGTNT 240
GGCCTNGCCN TTCACGCCTT AACACTAAGC CCACCTCCCC TTNTCTCCTT CCCAGCATTG 300
AGCCCTTGGT TGCCTGGGCC CAGGN 325

```

## (2) INFORMATION FOR SEQ ID NO: 2870:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 325  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03411

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2870:

```

GATCTTCAGA AACCTTGCTA GGAGAAGTTA ATGAAAATAG AGTATCAATA GCATTGAAAA 60
AAACCTCTGA AATCCTTCAC GATATTGACT GTCTTCTATC AAACCTCTAAA AAGTGAAAAA 120
TGGAATTATT ACAACATATT ATTAAAGTTT AAGGATGTTG TTTCAAGTGA CTGGTATAAA 180
ATTACTAGTA AGCCAAGATA TTGTACGTAT TACCCCGGCA CAATGATTGT GAAAGANCTG 240
ACATTTAACT TTGAAGGTAT TTTTAACTTG TACATTTTTA AAATATGTAT TTATATCTNA 300
NTANTAAATN TTTCGAAGTT TTAAA 325

```

## (2) INFORMATION FOR SEQ ID NO: 2871:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 325
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03412

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2871:

```

GATCCAAGCG GAGATTGACG CTGCAGCGGA NACTCATCGA CTTCTTCCGG TTCAATGCCA 60
AGNATGCGGT GGAGCTGGAG GGGCAGCAGC CCATCAGCGT GCCCCCGAGC ACCAACAGCA 120
CGGTGTACCG GGGTCTGGAG GGCTTCGTGG CGGCCATCTC GCCCNTTAAC TTCACTGCAA 180
TCGGCGGCAA CCTGGCGGGG GCACCGGCCC TGATGCTTCG AGAGGGAGTT GTGACTCTGC 240
CTCTTTGCCA GATGACAAAA CTGAGACACA CAGCCGTGAC TTACTTGGCA AGACTGAGTG 300
ACTAGTAAAT AAATGATGGA GCAGN 325

```

## (2) INFORMATION FOR SEQ ID NO: 2872:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 323
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03413

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2872:

```

GATCCTCCTT CTAGCTCATC TGTAGATACT AGTAGTAGTC AACCAGAGCC TTTCAGACGA 60
GTAAGACTTC AGACAACATT GAGACAAGGT GTCCGTGGTC GTCAGTTTAA CAGACAGAGA 120
GGTGTGAGCC ATGCAATGGG AGGGAGAGGA GGAATAAACA GAGGAAATAT TAATTAANTG 180
GTCTGTAAAC AATAACAACT GTGAATAAGA TTATCAAATC TTTTTTAGTG TAATGATTGT 240
CAAGTTTAAA ANCATTTTNN TATATAACCT GGTATACTCA TGTCAATATN CTTTATTAAT 300
AAAANGNTTT TCAGTGTCAT AAA 323

```

## (2) INFORMATION FOR SEQ ID NO: 2873:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 322
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03414

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2873:

```

GATCTGCCCCA TCTCAGCCTC CCAAAGTGCT GGGATTACAG GTATGAGCCA CAACGCCCCAN 60
CCATCATTTTA TCTTTTTTTCAC TCATTTTTTTC ATGAGTATGC AGAGGAGTTT TCAAGAGGCT 120
ATCTGGTGTG ATATTGTAAT AGGCTGAATG CAAAAGCAGA TACAAGATTC CAGCTTTCGT 180
CTGTCATCAG ACATTGAAGA GATTTGGAGA AATGTAAAGC AGCAGTACTC TTCTACTAA 240
TTTTTGTGTG GGTTAGTTAG AAAAATGGTT ATTTNAGTG GGTTTAAATA TGTGAAAAAA 300
ATAAAATTAG CTATTTGCCA AA 322

```

## (2) INFORMATION FOR SEQ ID NO: 2874:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 319
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03415

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2874:

```

GATCACCTNT GCGTGTTCC TNCCAAAACN GCATAGCCCC AATCTAATAT CATCCCGAGG 60
AAATACCAGA CACACGCAAG GGAAAGGACA TTCTACAAAG GAACGGACTC ATACTCTTCTG 120
AAAAGTGTC AAGTCATCTA CGACAAAAGA CTGAAAGGAC CCCAGTCGAA AAAAGNCAAG 180
ATGACAAANT GCAACGTTTC ATCCTAGACT GGATTCTGGA CCCAAAAAAT CCCCTTCTTT 240
TGTCAGAAAG GAAATTTGTG GAACAACTGG CAAAATCTGG AGTTGGGTCT GCAGATTACA 300
CACTGGTATC GCAGCGAAA 319

```

## (2) INFORMATION FOR SEQ ID NO: 2875:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 320
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03416

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2875:

```

GATCTCCCTT CGTGGAGACG ACACCGGGGT CCTCCTGCCC ACCCCAGGGG AGGCCAGGA 60
TGCTGATTTG AAGGATGTAA ATNTNATTCC AGCCACCGCC TGACCATCCG CCATTCCGAC 120
TGCTAAAAGC GAATGTAGTC AGGCCCCTTT NATGCTGTGA GACCTCCTGG AACACTGGCA 180
TCTNTGAGCC TCCAGAAGGG GTTCTGGGCC TAGTTGTCCT CCCTCTGGAG CCCNGTCCTG 240
TGGTCTGCCT NAGTTTTNCC CTNCTAATAC ATATGGCTGT TTTCCACCTG GNTAATATAA 300
CCANGAGTTT GGGCCGNAAA 320

```

## (2) INFORMATION FOR SEQ ID NO: 2876:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 308
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03417

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2876:

```

GATCTCTGCT GTGNCTCCCA GAGTTACTGC TGCCAGACTG AACTGGAAGG GGAGGATGTA 60
GGAGCCTGCA CAGCTCACAC CTACTCCTGT GGCTCTGGAG TGGGCATCTN CCTGAGAGTA 120
CGGGAATGTN AGGTGCTATT TTAAGCTGGC AAAACCAAAG GCTGTTTTNA TTCTCCTCCT 180
TACCTTGATG ACTATGGGGA GACCGACCAG GGACTCANAC GGGGAAATCC TTTACATTTA 240
TGCAAAGAGC GATTCAAGAA GATTCAAGAG CTCTGGCACC AACACAGTGT CACAGNGGAA 300
NTTGGNCN 308

```

## (2) INFORMATION FOR SEQ ID NO: 2877:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 308
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03418

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2877:

```

GATCTTGACC ATGACAGTTT TNCACTTTTA ATGAAACGGG GAACCAAGAG GAACTTACTT 60
GTGTAACINA CAATTNCTGC AGAAATCCCC CTTCTCTTAA ATNCCCTTTA CTCCACTGAG 120
GAGCTAAATC AGAACTGCAC ACTCCNTCCC TGATGATAGA GGAAGTGGAA GTCCCTTTAG 180
GATGGTGATA CTGGGGGACC GGGTAGTGCT GGGGAGAGAT ATTTCTTAT GTTTATNCGG 240
AGAAATTTGA GAAGTGATTG ACCTTTTCAA GNCATTGGGA AACAAATAGA NCACANTATA 300
NTTTNNCN 308

```

## (2) INFORMATION FOR SEQ ID NO: 2878:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 307
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03419

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2878:

```

GATCTAGAAG ACGATTAAGG GAAGGTCGTT CTCAGTGAAA ATCCAAAAAC CAGAAAAAAA 60
TGTTTATACA ACCCTAAGTC AATAACCTGA CCTTAGAAAA TTGTGAGAGC CAAGTTGACT 120
TCAGGAACTG AAACATCAGC ACAAAGAAGC AATCATCAAA TAATTCTGAN CACAAATTTA 180
ATATTNNNNT TNCTGAATGA GAAACATGAG GGNAATTGTG GAGTTAGCCT CCTGTGGTAA 240
AGGAATTGAN GAAAATNTAA CACCTTACAC CCTTTTCCAT CTTGACATTA AAAGTNCTGG 300
CTAACTN 307

```

## (2) INFORMATION FOR SEQ ID NO: 2879:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 307
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03420

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2879:

```

GATCTTGAGG GCAGACAGCA GAATTCCTCT TATAAAGAAA ACTNTTTNNGG AAAATACGTT 60
GAGGGAGAGA NGACCTTGGG CCAAGATGCT AAATGGGAAT GCAAAGCTTG AGCTGCTCTN 120
CAAGAGAAAA TAAGCAGGNC AGAGGATTTN CTCTGGACAG AGATGGAAGA GCCGGGAACA 180
GAGAAGTNTG GGGAAGAGAT AGGAACCAGC AGGATGGCAG GGGNNNNGGG CTCAAGGGTN 240
AGGAGGCCAG TGGGACCCCA CAGAGTTNGG GGAGATAAAG GAACATTGGG TTTGCTTTGG 300
TGGCACN 307

```

## (2) INFORMATION FOR SEQ ID NO: 2880:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 305
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03421

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2880:

```

GATCTGCCGT GTCCTTATAA AGTGGATGAA AAATGTTTGT TACCCATCTG GAAAACCAAC 60
AACTTGAAAT CTCAGGTATT CCAGGTCCT GACATGAATT TGAAGATATA TCTATCTGTA 120
TGGATATATA TCTATATGTA TATAGATATA TAANTACAGA GAGATATCTG GCTTGTTTTT 180
AATTATGTNC TTAAATTTGT GTGCCAATAA TTGCATATAG ATTTTNTTNC TTAAATATTT 240
GACTGTGGAA CATGCCATTT TAAATATGTN GTAAGGCCTG TNNTAATAAA ACGTTTAGTA 300
TGAAA 305

```

## (2) INFORMATION FOR SEQ ID NO: 2881:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 305
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03422

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2881:

```

GATCCACTGA TGGCTCCAGA CCCCAACTTT AGCCATTGCA CGTGTGGAAC TCCAGGTTGA 60
GCCTTTGCTG GAGCCGCCTG CAAGGNGCAT GTTTGACCAA TCCCCAGTGG AGGGGAGGGT 120
GGTGTTCCTT TTCTGGGACT TCCACAAGTT GAGAACAGAC CATGCTGCCC TGGGCAGTTC 180
TTGAAGGCTG TGAGAGTGGG CCTGACAAAG TTTATTCCTT TTTTTTTTTC CATTNCCTTT 240
TATNATNATA ATTGTTTGAA ATNGNCAANT AAAAAATNATG TATATTTATG ANGTNCANCA 300
NGAAA 305

```

## (2) INFORMATION FOR SEQ ID NO: 2882:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 303
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03423

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2882:

```

GATCAGGAAA GTCATACTGT TCACTTTCAA GNTGGCTGTC CCCCCCGCCG AGCCCCCCCCA 60
CCCCCATATG TACAGATGAT ANTAGGGTGT GGAATGTCGT CAGTGGCAAA CATTTCACAG 120
ATTTTTATTT TGTTCCTGTC TNNANCNTTT TTGNCACTGT GCTAATAGTT ATATTCAGTA 180
CATGAAAAGN TACTACTGTG TTGAAAGCTT TTTAGGAAAT TTTGNCAGTA TTTTGTACA 240
AAACATTTTT TTGAAAAAAT ACTGGTTANT TTATNCTATT TT/ATTNGCC AATGTCAATA 300
AAN 303

```

## (2) INFORMATION FOR SEQ ID NO: 2883:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 375
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03424

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2883:

```

GATCACCGGA CACAATCCTG CAGAAGGACA CACGACTCTA TTTCTACAG TGCGAAACTT 60
GTCATTCTAG ATGTNCTGTT GCCAGTATCA AAACCGGCTT CCAGGCTGTC ACGGGCAAGC 120
GAGCACAGCT CCGTGCCAAA GCTAACTAAT TTGCTAATCA CTGATTTTNC AAAGCTTGTT 180
GTGGAGATGT GGCTGGACAG GTTTGCCATC AGAGTGGATA TACCGTTGTA TTA AAAACAA 240
GATAAAAAAG CTGCCAAGAT TTTTGGCGNG TGTTGGTCT GAAGTCCTTG CAAGACGCTG 300
NTGCTCAAGC TGTTGACATA CTCATTGGCC TACTTTTAAC ACCTGTCCAG AGGAAACGTG 360
NTATGGGGGT AAGTN 375

```

## (2) INFORMATION FOR SEQ ID NO: 2884:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 301
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03426

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2884:

```

GATCAGATAG GAGCACAAGC AGGGGACGGA AAGAGAGAGN CACTCANGCG GCAGCATTCC 60
CTNCCAGCCA CTGAGCTGNC GTGCCAGCAC CATTCTGGT CACGCAAAAC AGAACCCATT 120
TAGCAGCAGG GAGACGAGAA CACCACACAA GACATTTTTC TACAGTATTT CAGGTGCCTA 180
CCACACAGGA AACCTTGAAG AAAATCAGTT NCTAGGNNNN GCTGTTACCT CTTGTTTACA 240
GTTTATATAT ATATGATAGA TATGNGNTAT ATATATAAAA GGTACTGTTA ACTACTGTAA 300
A 301

```

## (2) INFORMATION FOR SEQ ID NO: 2885:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 297
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03427

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2885:

```
GATCGGGGGA GGGTAAATAA TGCAAAAATT GCACAGTGGA AGAAGGGGTC TCACAAAAG 60
CAATCCATCC TGTAATATAG GTANNNGNT TGGGGGAAGC AGCTTCCATT CTGGATGTTT 120
GGAACCCTTT AGCTTTGTTT TGAATGGCC CACCATTCTC ACTGGAAAAC AGTGGTCTGC 180
TGTGAAAGGC CAGCTCTCGG CAGCCCCTGT GGTTCAGCG CTGCCGCTCT GTGTCATTCA 240
GGTTGTGCAC ATTGTTTTTC TTCTGACTTC CAGAAATAAA AGTGTTTCCA TGGGAAA 297
```

(2) INFORMATION FOR SEQ ID NO: 2886:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 296  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03428

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2886:

```
GATCTGGGTG CCTTGGGAGA NCCAGTCCTT CCTTTTNACC CACCCAGGA AGATGGAGTN 60
CTCTTTNCTA GGCCCATGTC CTGCCAGCAA CCGGGATGCG TGGGCAACTG GACTCTGCAC 120
GGGGGTCTAC AGGTTGAGGG AGGTTGGTCA CAATNAGAAC CTCGGGGTTT GAGGTGGCCA 180
TGGGCAGACA GCCNNAAGGG AGGGAGGGTG TGGGTGTNCG TGTGTGCATG TCCTGGTNTG 240
TAAGGGGGAA AGGGTCTTTC CTGGTTTTAT TTAAATAAAG TAGTTTATGT AACAAA 296
```

(2) INFORMATION FOR SEQ ID NO: 2887:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 296  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03429

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2887:

```
GATCTGTGCN GTGGTCCTNA GGCAGTTGTN TCCACACAAG TACTACTTCC TCGTGGGCTA 60
CAGTNAAACT TTGCTGTCCT ACTTTAACAA ATGTCCTGTG CGACTCCACC TCCAAACTGT 120
GCCCTCAAAG GTTGTGTATA AGTACCTCTA GAACAATCCC CTTTTNCCA TCAAGCTGTA 180
GCCTGCAGAG AATGGAAACG TGGGAAAGGA ATGGTATGTG GGGGAAATGC ATCCCCTCAG 240
AGGNTGAGG CATAGTCTCT CATCTGCTAT TGANTAAAGA CCTTCTATCT TGTAAG 296
```

(2) INFORMATION FOR SEQ ID NO: 2888:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 356  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03430

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2888:

```

GATCTACTCT GTATGGGTAC CAAAATCACC TTCTCTCTTC AAGTCAAAGT TGAATTTAGA 60
ACTTTGAATA CAGGTCAAAA AATGTAGAAA ATATCATTTT ATATTCCCTA ATCTATATAG 120
CTGAAAAAGG GTTGTATTTT CTTAGCTGAA TATGAATACC TCTTAAACAT AAATTAGTTC 180
CTCTCCAGTG AAGTATCTTA TTTTACCAAT CCATTTTCAGG AAAGAGGTTC TGCTGCCGTA 240
AAGGCAGAAA TTTTATTTT ATCCCTTTTA TTTGAATGAG AGATTTGAAA ATCGAATTAT 300
GTAAATATTT CAATGCATCT GCTATTATTT TGTGGAGTTT ATTAACTAC TTAAAA 356

```

## (2) INFORMATION FOR SEQ ID NO: 2889:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 293
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03431

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2889:

```

GATCCCAAAC CAAATCTTAG AATCANTTCA TTTAAAATAC TGAGCGGTAT TGANTACTTC 60
GAAGCAGAAC AGGCAATGTG CAGCCCTCAT TTATGAGAAA ACCCTCAGGA AACTCCCAGG 120
GTGATGCTTG GNGAAGCTGT GAGTTGAGCT GAAGCTGGAG AACTTCCTCC AGAGCAAAGG 180
GCTTAAGAAA GAAAGANGAA CTCTAAGCTG GGTCTGCTAA CATCACTCCA GTTTAGATGG 240
NTCCTGTTTT TCCTTAACAN GTTGAGGCGT GGGTAGAGCA GGANTTGGTT TTN 293

```

## (2) INFORMATION FOR SEQ ID NO: 2890:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 289
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03432

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2890:

```

GATCTGAAAT AACATTAATT TGATTGTAAC CCTATTGGGG TTAGTTCCCA CCCTTTGTTC 60
CATCTTGAGC AGAGATGNGC TGCATTTCTT AACGTTTGGT CTCTATACAT TATACCATCT 120
GCTGAAGTTT AGCTTTGTGT GTGTGTATAT GTACCCATGT GTGCACTTTA AATATCAGTA 180
CAAAGTATA AACAAATGTTT CTGGTTAATG TTGCAAAAAT GGAACACTGT ATTTNACATA 240
ATTGATTTTC TACTCCTGCC CTGTGAATTA AGGCAGAGTT TTACTGTAN 289

```

## (2) INFORMATION FOR SEQ ID NO: 2891:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 286
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03433

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2891:

```

GATCTTCCCA CACCAGCCTC CAAAATACT GGGATTACAG GCTTGAGCCT CCATGCCTGG 60

```



CCCAGGTAAC ATGTTTATTG AGCTGTACAT GCATATGAGA AATAAGAAAC TTTTTTTTCC 120  
TACTATCATC TCTTAAATNT NGTNTTCTTT TTCTTTTGCT TCCTCTTCTT CTNTNCTATT 180  
TNTNATAAAT ATCATGCACA ACTATAACCT ATGGGAATNA TGTAAGTAACA CAGATTATTC 240  
ATCTTGTTAG AGTTGTATTA AAAATAAACA AGCATTTCOA ATTAAA 286

(2) INFORMATION FOR SEQ ID NO: 2892:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 286
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03434

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2892:

GATCCAAGAC CAGGGTGGTT GGGGGCTGCC CCTGGCCGAG TCACTGAAGC GACTNATGTC 60  
CCTGTNTCCA GGACGANCTC CTCTCCTACT TTGGGACGCC CACGTGGCAG ACCGTGACCA 120  
TCTTTGTGGC GGNAGTGCTC ACCGCCTCAC TCACCATCTG GAAGAAGATG GGCTGAGGCC 180  
CCCAGCTGCC TTGGACTGTG TTTTTCCTCG GGTAANNNGN GGCATTNTTC TGGGAGGGGT 240  
GGGGATTGGG GGACATGGGC ATTTTCTTA CTTTGTAAAT TATTGN 286

(2) INFORMATION FOR SEQ ID NO: 2893:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 285
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03435

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2893:

GATCTGCNGG GGCNTGTNCA GCTGCAGCAT TCCTGAAAGA TTTCGTAACT CATCCTAAGT 60  
GGGCACATTT AGACATAGCA GCGGTGATGA CCAACAAAGA TGAAGTTCCC TATCTACGGA 120  
AAGGCATGAC TGGGAGGCCA ACAAGGNCTC TCATTGAGTT CTTACTTCGT TTCAGTCAAG 180  
ACAATGCTTA GTTCAGATAC TCAAAAATGT CTTCACTCTG TCTTAAATTG GACAGTTGAA 240  
CTTAAAAGGT TTTTGAATAA ATGGATGAAA ATCTTTTAAC GGAAA 285

(2) INFORMATION FOR SEQ ID NO: 2894:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 284
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03436

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2894:

GATCAGCTCT TTCTATTTTT ACTCGTAAAA ATTATGGAAA TAAATAATTT TGCTAACAAC 60  
TTTGAAATTT CAACTTCTG GAAANATGA AAATATTCAT TGTTCAATTAT GAATTTAAAT 120  
TGTAAGGTAT GAATGTNATT TGTCTGTACA TCTTGTATCT TTTCCAAAAA ATGATTCTGT 180  
ATCTTTTGGG AAAAAGCCGA GAGTTGAAGA TAGTATATTT CTGGTAGTAC TGAATATTTA 240

CTTACAGTTT CTATCAAAAA TATATATTTG TTTCTAAAAAT TAAA

284

## (2) INFORMATION FOR SEQ ID NO: 2895:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 283
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03437

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2895:

```
GATCTCCTTG TTAGTGGTGG TAGGGAGCTA GACAAGGATG GCAACTATTT CTGTATCTTA 60
CATACCTTTN ATTTNGAGGC CCTGTCAATG TTTTATATAA TANNCATTTT TTGAAAAGGC 120
AACTCTTAAA ACTAAAACAA ACTTAACAGT CTGTCAAGTT GGTGATATAA CCCCACAGAA 180
GACTTACTTC AAGTGACTTG AAAACTTAGT ATTTTGTCTG TNCTTTGCTA ATGGGNATAN 240
ATCCTACAGA CCAAACANCC NCAGNTAANT CTTAANCTGC AAA 283
```

## (2) INFORMATION FOR SEQ ID NO: 2896:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 279
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03438

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2896:

```
GATCCCGGGA GACCTGGGGC TGCCGAAGAA GCTCTGCTCC AAATGGAGAG TGTAGCCTGA 60
GGGCTGGTGT TGCCTGCCTC CCCTGTNCTT GTNCCTTGTC CCAAATAAAA TCCTTTCAGA 120
ATGTAGCACT CACGNCCTAA TAAGGAGCGA ATCCTACATC CACCAAGGCG GCGCTCTGG 180
CCCTCCCTTC CTTAAGCCCA GTCCTGTGTC CTCTGAAAGA GGTTCAGTC ACTCACACCN 240
GCTTGCGCTC ACCATCAATA AAAGTAATTT CACCNGAAA 279
```

## (2) INFORMATION FOR SEQ ID NO: 2897:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 278
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03439

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2897:

```
GATCCCCTCC CCAAGATAC TCTTTGTGGG GAAGAGGGGC TGGGGCATGG CAGNCTGGGT 60
GACCGACTAC CCCAGTCCCA GGGAAGGTGG GGCCCTNCCC CTAGGATGCT GCAGCAGAGT 120
GAGCAAGGGG GCCCGAATCG ACCATAAAGG GTGTAGGGGC CACNNNNCTC CCCCTGTNCT 180
GTTGGGGAGG GGTAGCCATG ATTTGTCCCA GCCTGGGGCT CCCTCTCTGG TTTCTATTT 240
GCAGTTACTT GAATAAAAAA AATATCCTTT TCTGGAAA 278
```

## (2) INFORMATION FOR SEQ ID NO: 2898:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 276  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03440  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2898:

```

GATCTGCTTA CCAAGCATAT TAGGAAATAC CTCTTAGGAA GCATTAGCGG TCTCAGGCCA 60
ATTACTGTGG AGCAGCTTTC ATTCCTACCC ACTTGCAAAC CTTGGCGCTG TTGTCTGAGA 120
TTGCTGCAGC CATTCTTGTT ACCATGGTAC TTCTCAAAC TTTGTGAAAAC CTGCACTTTT 180
CCTTGCAATG CAGGTTCTTG TCTTGTCTGT CATGGGAGCC ATTCTGCCAA TTAAATGCG 240
ACTGTGGTAT AACAGTAAA ATGATTTAAA AGTAAA 276

```

(2) INFORMATION FOR SEQ ID NO: 2899:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 274  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03441  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2899:

```

GATCAGTGTT ATATTTTACT GGAGAAGCTA TTGAAGATGA TGATGATGAT TATAATGAAG 60
AAGGTGAAGA AGCGGATGAG GTAATGTTTA CCAAATAAGC AAATAATTCT NTGTGGTTAA 120
CACATTGAGA AGCAAATTGA ATNACTTATG TATTCCTTTG CTATAATCAT TCTGTGATTT 180
GGGATAAAAA CATTTTGGAA AACATGATTT TAGAATTCTA CAGCCAAACA ATGTATGTAT 240
AAGGTTTCAA TAAATAANTT GCAAACTCA GAAA 274

```

(2) INFORMATION FOR SEQ ID NO: 2900:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 273  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03442  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2900:

```

GATCCCCACC TGCCATCCTA TAGTGTGTG TTCCTGTGTG TTCCGGGGCT TCTGGGCAGC 60
TGGGCCTGCC CGGGGAAGTC CTTGCAGGTG GGAGGCCATA CAGAGACCCA CTGTGTGCCA 120
CTGAGCGTCC CACTGCTGCT GGGCAACTGG AGGACTGCAG GGGGCGCCAG GTGACTCTCT 180
CCTTTTATAT CACAGCAGCT CCTGTGCTGA CCTTCAAGTT ACGTTTTGGA ACTGTAATAC 240
TAAAGGAAGA AATAAACTAC TAATTTGTAT AAA 273

```

(2) INFORMATION FOR SEQ ID NO: 2901:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 359  
 (B) TYPE: nucleic acid

(C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03443  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2901:

```

GATCTGGTTA AGTTGTGTAG TAAAGCATT A GGAGGGTCAT TCTTGTCACA AAAGTGCCAC 60
TAAACAGCC TNCGGAGAAT NNNTGACTTG CTTTCTAAA TCTNAGGTTT ATCTGGGCTC 120
TATCATATAG ACAGGCTTCT NATAGTTTGC AACTGTAAGC AGAAACCTAC ATATAGTTAA 180
AATCCTGGTC TTTCTTGGTA AACAGNTTTT AAATGTCTGA TATAAACAT GCCACAGGCG 240
AATTCGGGGA TTTNAGTTTC TCTGAATAGC ATATATNTGA TGCATCGGAT AGGTCATTAT 300
GATTTTNNNC CATTTGGCT TCATAATGNA AACCAGTTCA TTTTACCTAT CAGGTTATN 359

```

(2) INFORMATION FOR SEQ ID NO: 2902:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 268  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03444  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2902:

```

GATCAGAGCA CAGTTGAAAT TCATGGAAT GGCATTATTT AAGCAACCAG AATTCCACAC 60
TGTAGGAAGG TTTTGAAAAT TGTTTCGTTA TAGATTTTAT CTTATCTTTT GGTGTTGTCT 120
TGGTTTTTCT CATAGACTTT ATAAGTTTGA ACTGGACTTA TTTGATTATA ACCACAAATT 180
GTGTGTGTGT GTGTGTGTGT ATATATAGAA GTCATTATGG CAGATGCACA AATTGTGCAG 240
TGATGTAAAT ATACATACTT CACAGAAA 268

```

(2) INFORMATION FOR SEQ ID NO: 2903:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 264  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03445  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2903:

```

GATCGGTAGT GTTGTGTGTA GGCCATTCTT CTGGAGAGCC ACAAGCAGGA AGAGCAGCGC 60
TGTGTTGCAG AATGGAGTTC CATGGATTTT TACCAGACCA CTGAAGGAGT TCCTNGAAGC 120
CCTGCGGTAG CTAGCACTGA AGACTATTTT NCTATTGGTA TAACCNGCCC ACCTGAAGGG 180
GAAAGGGGAA ATCAANTTAA TTTTCTCGTT AGACATANGG AAATTTAAGG AAAACAGNT 240
TTAGGANCAG TTAATCAGCG TAGN 264

```

(2) INFORMATION FOR SEQ ID NO: 2904:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 258  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03446

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2904:

```

GATCCATAGT GAAATTGCCA GAGTTTTGCC TGCTGCTTTC CTCGTGGCCT CTTCTTGGGT 60
AGTGAAATNA AGTGACATTT GGATTTTAAT TTGGGTGGGA GGGCTGGGAC AGTTTTTNTT 120
CTAGAAATGT CTGTTGAGAT TTCCCCCTTT AGTTTCCAAC CTTCTCCCCA ACCCTTGGAG 180
CTAAATGCGT TGTAATAATAT TGCCAAAATG AAAAGTGTTT TGTAATACTG CAATAAAGGC 240
TGCTTGTTTT TGTGGAAA 258

```

## (2) INFORMATION FOR SEQ ID NO: 2905:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 264  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03447

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2905:

```

GATCGGACAT GAAAGNACCC TGNGAGTCGA TTGTCCTANC TCCAGCGGCC CTGTCATCCA 60
GCTCACTCAT CAATGGGGCC AGTCAGGCC AGGCACTGGG CTCCGGAGGA CTCACCACTG 120
CCCCCTGCTG CCATGTGGAC TGGTGCAAGT TGAGGACTTC TTGCTGGTCT AGTCACGCAT 180
GCAGTGTTGG GGGATGCCTT GGTTTTTACT GCTCTGAGAA TTGGTTGAGA TACTTTTACT 240
AATNAACTG TGTAGGTTGG GAAA 264

```

## (2) INFORMATION FOR SEQ ID NO: 2906:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 257  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03448

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2906:

```

GATCTGCTTT CAACACTTTT AGCTCTTCTA GAATTTTCAGA AAAATGGTAT CGGATGTACA 60
GCATGGACCC TTCINTGGTG GGCTTCTTTA CTGTAATGCT TTTAANATTG ATCTGTGCTG 120
TTNAGTGCTT CTGCAGTCCA TTCCTTCTGT TGAGTGTATC AGTAGTCCAT TCCTTTTCAT 180
GGCTGAGTAG TATTTTCATTG TATAATTATA CCACTATTTG TNCATTTACT AGATAATANN 240
CAGTTGGCTT GTTTAAA 257

```

## (2) INFORMATION FOR SEQ ID NO: 2907:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 256  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03449

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2907:

```
GATCCATCCG CCTTGGCCTC CCAAAGTGCT GAGATGACAG GCATGAGCCA CTGCACCCGG 60
CCATATAATC AAATTTTAT TGATTTTAGA GCAAAGGACT TTTCAATGT AACTGCTTAG 120
AAATCGAGCA ATTTTCTATT GTATAGAGTG AAAGTCAAAC TTGTTTATTG TACAAGTCTT 180
TAAAGGGATA GTTAGGAGTA AGTTGTATTT GCTGAATATA TAGACCTCAT TTGTAGCCAT 240
TAGTGATTCT GTATTN 256
```

(2) INFORMATION FOR SEQ ID NO: 2908:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 256  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03450

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2908:

```
GATCTAATTA AAAAAAAGGC AATATTTTTA TATTAAAGTA CTATACTAGG AGAGAATGTT 60
TCANAACCTC CTGATGAATT TCTAAGTGAG CAACTTGATA TAAAATTGTA ATCTTCATTT 120
TTGTCAGTGT ATCCAGTTAC AGAATGCTAC AACTTACCT TTTTATTGGC TGAGAAATCT 180
GGTTATTTCA TCTTAATCTC AAGATTGTTT TCAAGTGTTT TATAATTAAA TCATAATAGC 240
ATATTTTAAA ATCAAA 256
```

(2) INFORMATION FOR SEQ ID NO: 2909:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 255  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03451

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2909:

```
GATCAAACCA GCTCTTNTNA CCCAAACCAN TGCCGCTGCA TTAAAGGGAG GCCCAGCTAC 60
TCCTTCCCAG CTGAGATGTG GGTACAGGTC AGATTTNTCA GGGAGATGGC ACTAACACGA 120
CACAAGCTCA CTCCAGAAC CGCAGCTGAT GTTTATAATA ATCGTATGTA CTGTGCAATT 180
TAGGAGGGGA AAAAAAGGCT GTACAAGCTT TAACTCTAAA NNAAATNTCT ATTTTTTNCC 240
TCTTGCAAN TAAA 255
```

(2) INFORMATION FOR SEQ ID NO: 2910:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 254  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03452

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2910:

```
GATCTGCCCT GTACAGCCAT GTAGGCTGTG CGCTGCATAA CTCCAGGGAC ATGAGTCACA 60
```

CAGACACAAT GTGAGTGTGC TCCCCGTCA TGCAACATCT GGACACAACT AACAGAGCAT 120  
 GGTGAATACA TGCTGAATTG CATTTCAGTAT GGCTGTGAAC TAGGCCTGGG GACAAGANTG 180  
 ANTTTTACAT GGAAAGAATT TCCTGTAGCA GGAACAGAGG GGATAACAAC AGCAGTAAAT 240  
 AATAATAAGN CAAA 254

(2) INFORMATION FOR SEQ ID NO: 2911:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 253
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03453

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2911:

GATCCCCAC TAGTNCCTC CCTCTNCCC TGTAATCCTG GTCTAATAAC CCCCCACACA 60  
 TACACCTCTG GTGACCTATT TGCACAGACC GTNGTCTTCC CTCCAGTNTT CTNAGGGATA 120  
 GGGGACATTC CATCCCAAGC TTCTNCCTTA CCCACACCTA TCCTTTTNAG GGGCTTTGGG 180  
 GTGGGGCTGG GGCAAGCAGA GGGACTGGGT CTTCACTTCT NGGGCTAATA AAATTGTTTC 240  
 TTTGTGGACT AAA 253

(2) INFORMATION FOR SEQ ID NO: 2912:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 253
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03454

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2912:

GATCAAACCG GTTCTNTCCT TTCTTGTTGTT GCCATGTTAC TATGCCTCAA GCCCAGTTTN 60  
 CTTTNNCCGC AGCGATGGGG CCAGTCTCAT TCCTCCCCAG GAGTGAACT NGCTTCANCT 120  
 GAAAAGGTTG GGTGCATTGT CAGTAAAAAG GGCTTATTTG TTTCAATTNA CTTTCCTGCA 180  
 AAATTTTCTT CAAAGCAACA AGTCCTAGGN GCACACAAAG CAACCCAAAG GCTTTTCCCT 240  
 GGAAAAGCTC TTN 253

(2) INFORMATION FOR SEQ ID NO: 2913:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 254
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03455

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2913:

GATCCGGGGC ATGCAGAAGC TGAGCACACC CCAGAAGAAG TNAGGGTCCC CGACCCAGGA 60  
 GAACGGTGGC TCCCACAGGA CAATCGCTGC CCCCCAACCT CGTAGCAACA GCAATACCGG 120  
 GGGACCCTGG CGGCCAGGCC TGGTGCCATG AGCAGGGCTC CTCGTGCCCC TGGCCCAGGG 180  
 GTCTCTTCCC CTGCCCCNTC AGTTTTNCAC TTTTGGGGTT TTTTATTGNT ATTAACTGA 240

TGGGNCTTTN TAAA

254

## (2) INFORMATION FOR SEQ ID NO: 2914:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 249
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03456

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2914:

```
GATCCTTGTT TTGTTGTCAT GGAACTTCG GGGCTGGTGG GACTTAGGCC AAAAGCTCAG 60
AGGCACAGCC AAAATTTAGA AGCTTGCTAC TCCTACGACT CGGCCTATAA GGAAGAGAGA 120
AGCTGTCTGT ACTTTGGGGA CTACATTGCT GAAGGAAAAA AATCACTCCC TGGCTAATTA 180
AGATTGCTTC CAAATTGGGG GAATGTGTGT CATTTCTTTT ACCAAGGCCA GTCATCCCTG 240
CTTCCACCN 249
```

## (2) INFORMATION FOR SEQ ID NO: 2915:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 249
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03457

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2915:

```
GATCCAGGCC GGGCCTATAC AGAGGTGCTG GCTGCTTGTT TACATTCTCC TCTGGGGCTC 60
TACCTCTCCA CACTTCCCCA GAAGGGAAAA GGGCACCTTG GATTACTNNN TTGGAAATNA 120
CTCCTTGGTG GGCAGCATCC TGAGGGTTCC CCAGAACCAG GCCTCTGCTC TGGCCCTCTT 180
GCATCTGGAA CGCCAGGTGG GTTTTTNTGG CATAGGAGCC CACTTGCATT TTCATAGTTT 240
TATTTGATN 249
```

## (2) INFORMATION FOR SEQ ID NO: 2916:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 249
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03458

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2916:

```
GATCACAGCC TCCAGGGCCC CCCAAATCCC AGGGAAGGAC TTGGAGAGAA TCATGCTGTT 60
GCATTTAGAA CTNCTNCTT TGCACAGGAA AGAGTCACAC AATTAATCAA CATGTATATN 120
TCCNCTATAC ATAGAGCTCT ATTNCNCTNC GGTTTTATAA AAGCCTTGGG TTCCAACCAG 180
GCAGTAGATG TNCTTCTGAN CCGCAAGGNG CAAACACTGA AATAAAATAG TTTATTTTNC 240
ACACTCAA 249
```

## (2) INFORMATION FOR SEQ ID NO: 2917:



## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 249
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03459

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2917:

```
GATCTCCTTT TGTGAAAACC AGTTTGATGT GCTAAAAGTA AAAAGTCTAN TTTCCAGTGT 60
GGTCTTGTTT AGAAGCAGCC AGATTTCCAA TGTTGTTTTT CCCCTCCACT CAGAAACCCC 120
TGCCCTTTTC CTTCAGAAAA CGATGGCAGG CATTCTCTG AGTTTACAAG CAGAGACTCA 180
CTCCAACCCA AACTAGCTGG GAGTTCAGAA CCCATGGTTG GAATAAAGAA ATTGTGCGTC 240
TTGGTCAAA 249
```

## (2) INFORMATION FOR SEQ ID NO: 2918:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 245
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03460

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2918:

```
GATCTATCCC TGCNGNCTCC ACACCTGAAC TTGCCTAACT AACTGGCAGG GGAGACAGGA 60
GCCTAGCGGA NCCAGCCTGG GAGCCCAGAG GGTGGCAAGA ACAGTGGGCG TTGGGAGCCT 120
AGCTCCTGCC ACATGGAGNC CCCTCTGCCG GTCGGGCAGC CAGCAGAGGG GGAGTAGCCA 180
AGCTNCTTAA TCCTNAGCCT NCCCCTGTGT ATTCACCACC AATAAATCAG ACCATGAAAA 240
CCAAA 245
```

## (2) INFORMATION FOR SEQ ID NO: 2919:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 384
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03461

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2919:

```
GATCAGGAAA CCAGAAATAC CACATTTATG GACCATGAAN GGTTGGTTCT TGACTCTGAA 60
GGGACTTTTG AGTTAATCAG CGTAAGGGGA TTTCTAAAGC AGGCAATCCC TGTAGCCGCA 120
GAGAATAAAC GCCTTCCCAA AATGGNAACT NCCCACAGCC ACATTTCAGA CCTGCTGAGA 180
CTGCTGAGTG AGGAATGGCA GTGAGGTTTC TTCAATNAGT CTCAGTTCTC TTAATTTTCA 240
GGAAGAAAGG GTAATTGCAG CCCCTCAGCC CCCAGGATTG ACCTCTNGGG AGNCATGGTA 300
GCGTTGTGTG CCAGGCCGTN GGTTCAGGTG TTNGCAGAAG CTTTCAGATT CGTCCGAAGG 360
GAAATAAAGT GTGTTGGCGT TAAA 384
```

## (2) INFORMATION FOR SEQ ID NO: 2920:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 240  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03462  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2920:  
 GATCCCAGCA GCCCTCCCTT CACCGTGACC CCTGACCTTT GTTAGGAAGG TGCAGTTTTT 60  
 NTTCTCAATC TAAATNCCTT TNAGGTGGGC CGCTTCCTTG GCTACCTGGT TCCAGGGGGC 120  
 TGTTTTGTAA TNAGATGCTG CTGGCAGGCC ACTCAGAGGC TCCCAGCTGG GTTGGTGGGA 180  
 CAGCCAGGCC AGATGACCTG ATTCCAGCAA AAATAAACT CAGATTGGG CAAAATGAAA 240

(2) INFORMATION FOR SEQ ID NO: 2921:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 238  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03463  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2921:  
 GATCCCTAGC AGCTCATCCT GCCCTTTGAA TACCCTCACT TTCCAGGCCT GGCTCAGAAT 60  
 CTAACCTATT TATTGACTGT CCTGAGGGCC TTGAAAACAG GCCGAACCTG GAGGGCCTGG 120  
 ATTTNTTTTT GGGCTGGAAT GCTGCCCTGA GGGTGGGGCT GGCTCTTACT CAGGAACTG 180  
 CTGTGCCCAA CCCATGGACA GGCCAGCTG GGGCCACAT GCTGACACAG ACTCACTN 238

(2) INFORMATION FOR SEQ ID NO: 2922:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 238  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03464  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2922:  
 GATCACCGGT TTCCGACTGA GTCTGGGGAT TTTGGCCTTG TTGACCCTCC TAGGTGCCCT 60  
 GGGAATTGCA AACAGCTTTC TGGATGAATA TCTGGACCTC AATATTGCCA AGAACTGAG 120  
 GCGGCAATTC TAACTTTTTC TCTCCCTTT AATGCTTGCA GAAGCTGTTC CCACCATGAA 180  
 GGTAATATGG TATCATTTGT TAAATAAAAA TAAAGTCTTT ATTCTGTTTT TCTTGAAA 238

(2) INFORMATION FOR SEQ ID NO: 2923:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 238  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03465

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2923:

GATCTACTGT GTGGTGTCTG GGCAGATGAA AGTACACTGC TTAGNGTGAT GCTTAGCATG 60  
 GGGCAGATGC TTGGTAAATT GTAATCACTT TTGTTGTCAG TTAAATGGAT ATTTCACTGT 120  
 TGCCTCTNAA ACGCTTACGG TAATATATAC TAATTATACA TGTTATTATC AGTTTATATT 180  
 TATTGAACAT TTCGGGGAAG TAATTATAAA ATAATCTTGT CTA CTGTCTT ACCCCAAA 238

## (2) INFORMATION FOR SEQ ID NO: 2924:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 347  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03466

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2924:

GATCTATGGT GCAGACTGCC TTCGTCGGGT GCAGACTGAG CGACCGNAGC CCCAGACACT 60  
 ACAGCTGGAT TNCTTGATGA AAATCTTGCC AAATTACCAC CACCTAAAGA AGACTATGNA 120  
 AGGAAGCTCA ACTCCAGTAA AGAACTAAGA ACAGTGTATA ACATGAAGAT AACATTTTGT 180  
 CTTTGACCAC TGTCTTTTGA ATGGGCCCCAC AGTGTTTATG TACTCTTAAC AACTCACAGA 240  
 ATAATACATG TTCACCTTAT TTTGTAAAAT TGGGTTGAGA GGAAACTAAT GGAGTTTCAT 300  
 TGTAACGTGC CTTTNTAATT TATATAAATG TATTATTNTC CTATAAA 347

## (2) INFORMATION FOR SEQ ID NO: 2925:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 236  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03467

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2925:

GATCCTGTGA TATGGTTTTN GGCCAGCAA ATCTAGGAGA AGATGCAATT AAAA ACTTCA 60  
 GAGCAAAACA TCACTGTAAT TTTTGCTGTA GAAAGCTTAA ACTTCCAGGT AAAAAATTTT 120  
 TTAATCAGTA TAGTATATAA TTNGTTACGA AACTNGGTTA CTACAATACC TCATAAGGCC 180  
 AGAGGTACAA NTGTTTAATG TAATGGTCTC TAATTGTGCC AGCTTCAGCA GCTCTN 236

## (2) INFORMATION FOR SEQ ID NO: 2926:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 271  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03468

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2926:

GATCCCGCAT GCCTGAATTC ACTAAAGCCA AGGGTCTNTA AGCCACGCTN NNTCTTCTGA 60

GACTTCCATT CCTTTCTGAT TGGCACACGT GCAGCTCATG ACAATCTGTA GGATAACAAT 120  
 CAGTGTGGAT TTCCAQCTTT TTCAGTCCTT CATGTTAAAG ATTTAGACAC CACATACAAC 180  
 TGGTAAAGGA CGTTTTCTTG AGAGTTTTAA CTATATGTAA ACATTGTATA ATGATATGGA 240  
 ATAAAATGCA CATTGTAGGA CATTCTCTAA A 271

(2) INFORMATION FOR SEQ ID NO: 2927:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 235
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03469

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2927:

GATCTAAAT GTTTATTCCT TCTGTAGTGT ATTAATCTCT GTGTGTTTTC TTTGGTTTTG 60  
 GAGGAGGGGT ATGAAGTATC TTTGACATGG TGCCTTAGGA ATGACTTGGG TTTAACAAGC 120  
 TGTCTACTGG ACAATCTTAT GTTTCCAAGA GAACTAAAGC TGGAGAGACC TGACCCTTCT 180  
 CTCACCTTCTA AATTAATGGT AAAATAAAAT GCCTCAGCTA TGTCAGCAAAG GGAAA 235

(2) INFORMATION FOR SEQ ID NO: 2928:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 234
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03470

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2928:

GATCCATCTN CCCTCATAAA AGTGTTTCAGG TACAGCAGCT GAGGCTGCCC TGAGGAATCA 60  
 NGGGGCCATT ACCAAGGGGC AGGTAAAGGG TATNTAAGAG GTGGCCTTCA TGGTAGAGCT 120  
 TGACCCAAGA NCTACTCCAC ATTCGGNTNG CCCAGACTGA CTCCATCCCC TGANTTTCCC 180  
 TTNGACTTCA CCCTGTTTGT AAATAAAACA NTAAATGGA AGGTGCTNTG GAAA 234

(2) INFORMATION FOR SEQ ID NO: 2929:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 233
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03471

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2929:

GATCTCAAAT CCTGGAACCC CGATTTCAAT CTACGTTCTA GTCAGTGGCC TCAAAGGACC 60  
 CCACAGCACC TGGGCCAGAC CAACAGCTCG AGGGAGAACC TGAAGGCCCA GGGGGTCCAG 120  
 GGCGGACCTG GGGCCCCGAC CACCAAGGAC AGCTCACGAC TGCCCCTTNA CTGCATGTCC 180  
 CCAAACCTNAG CATGACTCCT GTCCTCTTCA ATAAAGACGT TTCTATGGCC AAA 233

(2) INFORMATION FOR SEQ ID NO: 2930:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 231  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03472
- (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2930:
- ```
GATCAGCAGA AAGCACAAAC ACAACTGCTT CTGTATTCAG GAGGTTGTGA GTGGGCTGCG 60
GCANCCGTTG GTGCCCTGCA TAGTGGGGAT GGCTCGCAAC GTCTCTTCAT TCTGGAAAAA 120
GAAGGTTATG TGAAGATACT TACCCCTGAA GGAGAAATTT TCAAGGAGCC TTATTTGGAC 180
ATTCACAAAC TTGTTCAAAG TGAATAAAG GTTGCTTTT TAAATTTTAA A 231
```
- (2) INFORMATION FOR SEQ ID NO: 2931:
- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 231
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03473
- (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2931:
- ```
GATCAGCAAA AATAAAGGGG CTACAGAAAC ACTCATTTTT ATGCTGTTCC CTCTTGGGCT 60
TCATGCAAAG ACAATCTNT GTAAATNTAC AGTTGACTCT GATTGGAAA TATGAAATC 120
AGTCCATCCT TGTTATAAAA AATTTTTTTT CAATTGTAAT TATATTGATG TTCATATTGT 180
GTAAAATAAC TCATTTAATA AAATAGTACT TTGATTACG ACATCAATAA A 231
```
- (2) INFORMATION FOR SEQ ID NO: 2932:
- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 230  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS03474
- (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2932:
- ```
GATCCACCC CCAGCCATTT GCATTGCTGG CCCAGCGCCT GGCCTGGGGG GCGGGGAGAG 60
GCAGCAGAAG GGGCTGGGCA GGGGCGGTGG AGGACTCAGG AACTNCCCGG GGAGAGTGGG 120
TATGGCGGCT GAGCCAGGGN CCCTCCTGTN TTTNACTTCC CGGGATGGGT CCTTGCTTNN 180
AAGCTGTNTC CGACCCACC ATNTAATAAA ACCCAAAGGA ACAGCCCAAA 230
```
- (2) INFORMATION FOR SEQ ID NO: 2933:
- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 328
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03476

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2933:

```
GATCAGCCGG AAACCCCTGG CAGCCAAGAA CAGATAAGGA AGGGATTGGC ATCGGCTGGC 60
CTTCCAGCAC CTTCTCTCTC CAACACTTCA TTCTCTCTTG CCCTGTNTCT CAAATAAACC 120
CAATGCTGCG TGTGAGGCCT TTTTATTTT TCTTTTCACT CTCTTTCTAA TGCTTCCAC 180
CTTACCTTTT AGATTCTTTT GCTAGGTGGG AGATTGTTAT AAGGTCTTTA AACCATTTCC 240
ATTTGTTTCT TTAACATTAC CAAAAGCAGG GNACAAAGCT CTTATTCAAC TGCGNATTC 300
ATAGNGGGCT CTGGNTTNTT CTTGAATN 328
```

(2) INFORMATION FOR SEQ ID NO: 2934:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 220
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03477

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2934:

```
GATCTTGCCC GGTGTCCTGG TCCTCTTGCT TCCGTCGCGG CCGCATGTGC GTGTGTCCAA 60
GCAGGTCCTG GGCGCCTCAA CTGCTGCCCC TGGTTGAATG TTCTCTTGAT AGTGCTGGAC 120
CCTTTGTCTA TTTNAAAGCG AATTTTGTGT GATTTCCTGC CCTTTGCGTT ATATTGTATA 180
ATACCAACGT AAGGAAATAA ACCTTTGGAA TTGTTGGAAA 220
```

(2) INFORMATION FOR SEQ ID NO: 2935:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 219
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03478

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2935:

```
GATCCGAGGG CGATGGGACA GTGCACCGCA GATAGAAGAG GAGGACGTGC AGCATGGTGG 60
GAAACGGGGA CACCACCTCC CAGGACGACT GTTTCAGCAA AGAGCGCANT GCTCCAGGTG 120
ACCCAGCAAG GCTGTTGTNT GTATGGAAGG ACACGCTCGC GGCAAGGGCA GGGCCTGGGN 180
AGGGTGGCCT GTCCAGTCCT NNAGACAAGG GGAGGCCTN 219
```

(2) INFORMATION FOR SEQ ID NO: 2936:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 218
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03479

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base.

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2936:

GATCACCTGA GGTGAGGAGT TCGAGACCAG TCTGGCCAAC ATGGTGAGAC CCCATCTCTA 60
 CTAAAACTAC AAAATTAACC AGGTGTGGTG ATGCATGCCT TTNACTCGGG AGGCTGAAGC 120
 AGAAGAATCG CTTAACTCG GGAGGCGGAG GTTGACAGTGA GTCCAGATTG TGCCATTGCA 180
 TTCCAGCCTG GACAAGAGGA GCAACACTCT GTCTCAAA 218

(2) INFORMATION FOR SEQ ID NO: 2937:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 218
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03480

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2937:

GATCATGCCT GCGTGACAAA GCCTCCAGAA AAATCCTTGA AAGACAGGAC ATGGAGAGCT 60
 GCTGGGTTGG CGAACACATC CATGTGCCGG GAGGATGGTG CACCCCAACT CCACAAGGAC 120
 CCTTCCAGAC CTCACCCTGT GTATNTCTTC ATCNNTTGT TCATTGTAT CCTTTAAAT 180
 ATCCCCTGTA ATAAATCAGC AATAGTAAGT AACTAAA 218

(2) INFORMATION FOR SEQ ID NO: 2938:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 218
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03481

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2938:

GATCTAAACA GTGAATAGTA CATGCAAAGG CATAGTCTAG AGGATAAAAG TGAAAATAAT 60
 TAGTAGCAAA ATNAATGCCT TGTGGATGAG GTTTAGGGGC CAATAACTAT CTTGAGGTAA 120
 GGCCAGGTTG TGGCTGCCTT TGTGTTGTAC TAAGGGGTTT GGACCTTCCT AGGAGATTAG 180
 AGCTTNATTA AAGTCACAAC ATCCATAAGN GAAATAAA 218

(2) INFORMATION FOR SEQ ID NO: 2939:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 218
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03482

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2939:

GATCCCTTTG CTGTGAGGGT AGAAAACCTC ACCAACTGCA CCAGTGAGGA AGAAGACTGC 60
 GTGGATTCAT GGGGAGCCTC ACAGCAGCCA CGCAGCAGGC TCTGGGTGGG GCTGCCGTTA 120
 AGGACGTTCT TTCCTTACTG GTGCTGATAA CAACAGGGAA CCGTGACGTG TGCATTTTAA 180
 GACCTGCCT GGAATAAATA CGTTTTGTCT TTCCCAA 218

(2) INFORMATION FOR SEQ ID NO: 2940:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 216
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03483

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2940:

```
GATCTTAGAT TTGATGAAGC ACAGTATGCA GGTAGGCCTA ATGGGGGAAG ATGGTAATAT 60
AAAAGCAAGA AGTATTTTTT TTTTGNAATG NCTGAAAGCT GTTCTGTGGA TGACCTACCG 120
NTTCCTTTAA ACACGATTCT CTCACCTCCA ACTCCAAACT TGCTCAACTA ATCCTTAAAA 180
ATAAACTTGA GCTGGAATTT GAGGCTTGCC TGGAAA 216
```

(2) INFORMATION FOR SEQ ID NO: 2941:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 213
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03484

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2941:

```
GATCTCGGGG GTGTGGGGGCC CTGTGCCTTC CTGAAGTGCT GGCAGCCCAG TGGCACCTCC 60
TTCAGGCCTT TGGGGTATTC CCCTAGTGTG CCAAGTNAG CCTCATATTC TGGGCGGACA 120
GCTTGTCTGG ACTTCGGAGT TGGGGGTGGT CAGACACCAC AGGAGCTGTC ACCTCCTGCG 180
GATGGGCAAA TAAATTNGTG GAGGACNCCG AAA 213
```

(2) INFORMATION FOR SEQ ID NO: 2942:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 212
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03485

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2942:

```
GATCCTCTCC CCTAGTATNT TCAGCACATG CTCACTGTTC TCCCCATCCT TGTCTTCCC 60
ATGTTCATTA ATTCATATTG CCCC GCGCCT AGTCCCATT TCACTTCCTT TGACGCTCCT 120
AGTAGTTTTG TTAAGTCTTA CCCTGTAATT TTNGCTTTTA ATTTTGATAC CTCTTTATGA 180
CTTAACAATA AAAAGGATGT ATGGTTTTNA AA 212
```

(2) INFORMATION FOR SEQ ID NO: 2943:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 212
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03486
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2943:
 GATCTTTTCA GAGTGGTGTT TCTAAAAGAG CATGTACAAA AGTGGCCTGT GGACATTTAG 60
 GCCTAAAGTG ATGCATTTNC TCTTCCTNTT TGTGCCAATG TATCAATGTA GAGTTGCTCT 120
 GTTTTCTNCA ACTGTATNNA TTGCTGCATT TCTCAGCATA AACTTATCCC ATTGTATTTT 180
 TNATAAATAA ATATTTTTTTT TGAACCTTCA AA 212

(2) INFORMATION FOR SEQ ID NO: 2944:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 212
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03487
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2944:
 GATCAAGGAT GAGGATTAGC ATCTGCAAAAT TGAACCTCTAT CTAATTTNCA TTTTATTTC 60
 TTAGAATTGT AATTAAATTT GTGTAATAAA TGTNTTCCAT TTCATTTGTA CACTTAAAC 120
 TTGGGTGACT GAAATGCAGT TAAGTGAATT NCCTTTTNTT AAAAGCAAAT GTAGATTATN 180
 CAATAAAGCA GCAAACCAAT ATTAANCATA AA 212

(2) INFORMATION FOR SEQ ID NO: 2945:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 211
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03488
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2945:
 GATCTATGTA AAAGAATACA ATTCTTTTTT ACATAATTAG TGAAATTTTA TTTTTTATTA 60
 GGAAACACTA AATAGTGTA TATTTCTTTT GCTTTTAAAA AAATTCCTGG TAGCAAATCA 120
 AGATAAATAA TTGNTTCATT TTCTTGAGCA ATACTGAAGC AGGATGAAGT AAGAGGAATG 180
 CATTCAATTA AACATGCTTT GCTTGNTGAA A 211

(2) INFORMATION FOR SEQ ID NO: 2946:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 209
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03489
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2946:
 GATCAAAGAA CTTTTCTTAT AACCTGCAAT CAGCTACTCA GCCAAAAAAC AAAACAAAAC 60
 CTTGACTGCC TATGGAGGAA GACTGTGTTT GGGGGAGCTG GCATAGCTAG TGCAGAGTTC 120

AGATTTTCTG CTGATAATCT TTTACACCTT GGGAAACTT TAATATCCGT ACCTGAAGGN 180
 TGATTCACCT AAAAATGTGT TAACTGAAA 209

(2) INFORMATION FOR SEQ ID NO: 2947:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 208
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03490

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2947:

GATCTTCTCT GTGAATCCAC CCCTGGGTAC CCCACCCCTG GCTACCCCAA CGGCATCCCA 60
 AGGCCAGGTG GGCCCTCAGC TGAGGGAAGG TACGAGCTCC CTGCTGGAGC CTGGGACCCA 120
 TGGCACAGGC CAGGCAGCCC GGAGGCTGGG TGGGGCCTCA GTGGGGGCTG CTGCCTGACC 180
 CCCAGCACAA TAAAAATGAA ACGTGAAA 208

(2) INFORMATION FOR SEQ ID NO: 2948:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 207
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03491

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2948:

GATCACAATT NGGCCTTCAC TGCAGCGTGG TGTGGCCACC GTCCGTTTCC TCTCGGCCTT 60
 CCTCCGAGTC CAGGTGGACT CTGTGGATGT TTGGATGTGG CCCGAGCAGG CTCAGGCGGC 120
 CCCACTNACC NACAGCATCC GCCGCCACCC CTTGGGTGT NAGCNCTCAA TAAAAACAAC 180
 AACTATAAAA GTGTTTTTAA ATCCAAA 207

(2) INFORMATION FOR SEQ ID NO: 2949:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 203
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03492

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2949:

GATCTGAAAA TTCTTGAAAA TTGTTCCATG TGATTAACAT GGAAGTGCCT CTAATTAATC 60
 ATTCTGAATN ATTAAATCGT TTCATTTTCT AAATGCNTTA TAATGTGTTT AGCCCTTTCT 120
 TGTTGCTGTA TGTTTAGATG CTTTCCAATC TTTTGTTACT ACTAATAATG CTATAAATA 180
 AATATCCTTG TACTTCTTTG AAA 203

(2) INFORMATION FOR SEQ ID NO: 2950:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 201

- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS03493
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2950:

```
GATCTTNTCT GTNTGGGTGG GGAGCCGGCC GGCCGTGACC CAACGGCATC CCAAGGCCAG 60
GTGGGCCCTC AGCTGAGGGA AGGTACGAGC TCCCTGCTGG AGCCTGGGAC CCATGGCACA 120
GGCCAGGCAG CCCGGAGGCT GGGTGGGGCC TCANTGGGGG CTGCTGCCTG ACCCCCAGCA 180
CAATAAAANT GAAACGTGAA A 201
```

(2) INFORMATION FOR SEQ ID NO: 2951:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 200
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS03494
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2951:

```
GATCGTATAT GTGGGTCCCT TCCCTAGAAG AATGGTTGCT GATATGGCTA CTGCTTCTAC 60
ATCTNGAGTT TTTNAATTTA CTTTTTTNAC ACTGTAGCAT TGAGACTGCT TGATTCAAGT 120
CTGGTGCTTT GCCAGATGTA TTAATTNCCA TAAATGCTTT GTGAGTTTGG TTAAATGAA 180
GATTCACTTG GGAAANCAAA 200
```

(2) INFORMATION FOR SEQ ID NO: 2952:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 199
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS03495
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2952:

```
GATCACAGCC GGAATGCAGC TGAAAGATTC CCTGGGGCCT GGTTCCAACC GCCCACTGTG 60
GACTCTAAGG CCTCTGCATT TGTGGGTGGT CTGNCTGTAA TATTTTGGTC ATNGGCTGGT 120
CTGGTCGGTT TCCCATTTGT NTGGCCAGTC TCTATGTGTC TTAATCCCTT GTCCTTCATT 180
AAAAGCAAAA CTAAAGAAA 199
```

(2) INFORMATION FOR SEQ ID NO: 2953:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 319
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS03496
- (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2953:

```
GATCTCTAGT TTTTNTGGTT TAATTTTNAG TAGCAGGTCA AAAACCTGCC CTCCTGTNAC 60
TTATTCCTTG AGACTTTTCA GGAGAGCCAG CCCACAGATG ATGAAGAAAT GATGGAAGTT 120
CATTTGGAGA GTCAAATGGG AAAAAACAA ACAAAAAACT GCCTTTAATA CAGGCAATTC 180
AGTGGACTAT AATAATAGTG GAGGGTTGAG ATGTAGAGTT TTTAAAAAGT GAACAGTTGC 240
TGTTCTTACA TCTNTAANGA AAGCCATAAT GTCTTTAAAT CACTCTTCTG TAAATAGATG 300
NCCNTTTTTG CAGTGTAAG 319
```

(2) INFORMATION FOR SEQ ID NO: 2954:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 193
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03497

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2954:

```
GATCCTTAAT GCAGAGCTAG AGGACTTCTG GCAGGGAAGT GGGGAAGTGT TCCAGATAGC 60
AGGGCATGAA AACTTAGAGA GGTACAAGTG GCTGAAATC GAGTTTTTCC TCTGTCTTTA 120
AATTTTATAT GGGCTTTGTT ATCTTCCACT GGAAAGTGT AATAGCATAC ATCAATGGTG 180
TGTTAAAGCT AAA 193
```

(2) INFORMATION FOR SEQ ID NO: 2955:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 193
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03498

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2955:

```
GATCTGTTTC ATTTATAAAA GGTCCAGTTT TTAGGACTAG TACATTCCTG TTATTTTCTG 60
GGTTTTATCA TTTTGCCTAA AATAGGATAT AAAAGGGACA AAAAATAAGT AGACTGTTTT 120
TATGTGTGAA TTATATTTCT ACTAAATGTT TTTGTATGAC TGTGTTATAC TTGATAATAT 180
ATATATATAT ATN 193
```

(2) INFORMATION FOR SEQ ID NO: 2956:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 193
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03499

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2956:

```
GATCCAAGAA TGTGCCAAGA GTCCCGCCAG CCTCAGCCAG GTGGGCCTGT ATATAGGGTC 60
CATGTGCAAT AGGGAGGGAC GTCTTCTATT TTTTNTGACC CCCTCCCCGC CCACTGTCTG 120
```

GGGCAGGGGG AGAAGGTATT TTCGAGATAA AGCACAGGCA CCACAAATAA AAGTCGTGAA 180
 GTTGCCACTC AAA 193

(2) INFORMATION FOR SEQ ID NO: 2957:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 192
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03500

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2957:

GATCTGGGAG CAAGCTACCA ACAGGGGAGA CTCTTTCCTG TATGGACAGC TGCTGTGGAA 60
 ATACTGCCTG CTTCTCCCAC CTNCTCANAG CCACAGGAAA GAGGAGGTGA CAGAGAGAGA 120
 GCAAGGAAAG TAATGAGGTG GATTGATACT TTCTACTTTN CATTAAAATT ATTTCTAGC 180
 CTGCAGTCTA AA 192

(2) INFORMATION FOR SEQ ID NO: 2958:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 190
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03501

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2958:

GATCAGCCTG GGCATCATGG TGGCCTGCAC CTGTAGTCCC AGCTACTCAG GAGGCTGAGG 60
 TGGGAGGATA GTTTGACCCC AGAAAGTTGA GGCTGCAGTG AGCCATGAAT GCACCACTAC 120
 ACGCCAGCCT GGATGACAGA GCGAAACCCT GTCTCAAAGT AATTAATAAT AATTATATTA 180
 ATTCAGCAAA 190

(2) INFORMATION FOR SEQ ID NO: 2959:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 190
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03502

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2959:

GATCTGCTTC CCACTGTGAC TGGGCTATGG GATTCTGACT ACCTTGCTTA CAGATTCATG 60
 GTTTGATAAA TTTGTTGTAT TCAAAACTT GAAATGCAGG ACGCCATTAA GTGTCTGTTT 120
 ATATTTNTGG AATATTTGTA TTAATTACAA TTAATTAATA AAAGTGGGTT TAAAAAACCT 180
 TTCCAGGAAA 190

(2) INFORMATION FOR SEQ ID NO: 2960:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 193

- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS03503
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2960:

```
GATCTTGCCC CCTTTGACCT TCCCCAAAGG ATGGTCACAC ACCAGCACTT TATACACTTC 60
TGGCTCACAG GAAAGTGTCT GCAGTAGGGN ACCCAGAGTC CCAGGCCCTT GGAGTTGTTT 120
TCGGCAGGGG CCNTNTCTCT CACTGCATTT GGTCAGGGGG GCATGAATAA AGGCTACAGG 180
CTCCAACNTG AAA 193
```

(2) INFORMATION FOR SEQ ID NO: 2961:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 185
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS03504
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2961:

```
GATCAATCTG AAACATCTT AGCCAGTCA GGGAGCTCTG CTTCTAGAA AGGCATCTTT 60
CGCCAGTGGA TTCGCCTCAA GGTTGAGGCC GCCATTGGAA GATGAAAAAT TGCACCTCCT 120
TGGTGTAGAC AAATANNAGT TCCCATGGT GTTGTTCCT ATAATAACA CTTTTCTTT 180
TTAAA 185
```

(2) INFORMATION FOR SEQ ID NO: 2962:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 191
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS03505
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2962:

```
GATCCAACGA GGAATATTTT GCCACACGGC AAATATATAC CGTATAATTT TCTGTACCAC 60
TTGATAGAAA GGTAAAGAAT GAATATTGTT TTTTAAATAA CTTTTTCTT ATATAAGTAA 120
TATGTGCTTA TCGTGTAAC ACCTAAAAAC ATTGAAAAAT AAAAGGAAAA TAAATTCAT 180
ACATAACCAA A 191
```

(2) INFORMATION FOR SEQ ID NO: 2963:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 177
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS03506
- (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2963:

```
GATCAGAAAT GGAGCATGGC CTTGTCCTTT AATGGGGATG CAAATAAAGT TTGTGGGGTT 60
AAAAGTTATA AGACAGNAGT GATACCCAC TCTCTCCATT ATTGTCCAGC GGGGTGACAT 120
AATGACAGGT TAAATATTTG TGATTCATTG ATTAAATATT ATTTAAAGAA ATGTAAA 177
```

(2) INFORMATION FOR SEQ ID NO: 2964:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 176
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03507

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2964:

```
GATCACAGNG NTGGTGTCAT ATNCTATTNN AGGTTTGAAC TCTTGAGCTG GAACCTCAGC 60
AAACTAGAGT ATATATTGTT CAGTATTTCT TTGGAAACAT TTCATTAATG TACTTGCTT 120
ACAGAAATTT CTGAACCTTA GTAAAAAATA ATAAAGTTAA ACTTTTAAAA CTCAA 176
```

(2) INFORMATION FOR SEQ ID NO: 2965:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 172
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03508

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2965:

```
GATCTGAACG ATGCCGTGTC CAGTTTGCAG AGTCCTATTC CCCTCCTCCT GTCGTGTGCC 60
TTTGTTTCAGG TGGGGATGTA TTTCATGTAG AAGGTGGAAG AAGGCTGCTA TNACTCTTTG 120
GATGGGAGTC TGGCAAGAGG AAATTGGAAG ATAAAATAAA TAATAAGTGA AA 172
```

(2) INFORMATION FOR SEQ ID NO: 2966:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 172
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03509

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2966:

```
GATCTGCTCT GCTGCCCTGA ACTCTTACGG CAATTTAGGT TTCTCATTTT NNTTTTCTTT 60
TTACATATGT ACAAATTGTT TTAAGCTTTG GCCTCTATCC AGGTTATNCT GACAATGAAG 120
AAATGGGAGT TGTCAGAGCA TTAAAATGCA ATCTTCACTA AAANCAGTGA AA 172
```

(2) INFORMATION FOR SEQ ID NO: 2967:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 170

(B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03510
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2967:
 GATCTCTAAT ACAGTATCTA ACACAAAAGA AGCTTTAAAA AGACAGTTTC TTCCTTATT 60
 TGATTAGCTA GAAGTTTATC TAGGTAAAAG CAAAAAANA ANTTTNCAN GCATANCATA 120
 NCATTGGGGT TCTTTTTATA CTCAAGATGT TTANCTGTTC AAANTGNCAN 170

(2) INFORMATION FOR SEQ ID NO: 2968:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 355
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03511
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2968:
 GATCCAGGCG GGAGCAGAAG CTAAAGCCAA AGCCCAAGAG AGTGGCAGTG CCAGCACTGG 60
 TGCCAGTACC AGTACCAATA ACAGTGCCAG TGCCAGTGCC AGCACCAGTG GTGGCTTCAG 120
 TGCTGGTGCC AGCCTGACCG TCACTNTCAC ATTTGGGCTC TTCGCTGGCC TTGGTGGAGC 180
 TGGTGCCAGC ACCANTGGCA GCTCTGGTGC CTGTGGTTTC TCCTACAAGT GAGATTTTAG 240
 ATATTGTTAA TCCTGCCAGT TTTTNTTTT TCAAGNCAGG GGTTGCATNC TNAGAAAACC 300
 CTACTCNACA CAGCACTTCT TANGGTAGGC CNCTTATTCA ANTTCAATTT NNAGN 355

(2) INFORMATION FOR SEQ ID NO: 2969:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 258
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03512
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2969:
 GATCTCGGAT GCCATCCCCG AGCTGAAGGC CTCCATCAAG AAGGGGGAAG ATTCGTGAA 60
 GACCCTGAAG TGAGCCGCTG TGACGGGTGG CCAGTTTCCT TAATTTATGA AGGCATCATG 120
 TCACTGNAAA GCCGTTGCAG NTAACTTTG TATTNAATT TGCTTTGGTG ATGATTACTG 180
 TTTTGACATC NTCATGCCTT CCAAATTGTG GGTGGCTCTG TGGGCGCATN ANTANAGCC 240
 GTCCTTGATT TTGGGAAA 258

(2) INFORMATION FOR SEQ ID NO: 2970:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 81
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03513
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2970:
 GATCACAAGA GGCCCATTTG TAGTGGCTGG TTGACAACGG CTGGNGCAAA TTAAATAAAT 60
 AAAATAGCTC TNTCTTTCAA A 81

(2) INFORMATION FOR SEQ ID NO: 2971:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 169
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03514
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2971:
 GATCTNAGAC ATCCCCATCT TTGTAAGCAG AACAGTACGG CACTTCACCA CATCTNCTTC 60
 CCACCATGCT TCTAAGCAGC TGTNTTCCCC CTGCTAATGT TACAACCAAA GCAGCCACCC 120
 CACCTCCTNT NGTGTGAGC CTCACGACCT NTGACCCAGC TGGAAAGCN 169

(2) INFORMATION FOR SEQ ID NO: 2972:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 168
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03515
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2972:
 GATCTCATTG CTGCTTTTCT TTTATGTCCT TTTGTCTCCA TGGGAGGTTG AGCTTCTTTT 60
 CCTACAAGTT TACTTACTGT TTGCATTTAC TTTTCTTTTG CATTGTCTGT TCCAGTCTTC 120
 TGGCTATTTG ACTATTGTGT AATAAAAGGA CCAAAAACAA ATGTGGTN 168

(2) INFORMATION FOR SEQ ID NO: 2973:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 225
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03516
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2973:
 GATCTTGCTG CAGCCACAGT GCAGNTCCAC ATTAACCTCTA CAGACCAAAC CATTGTATC 60
 TGGCATCACT TACTAACACA CGNCATGCGG CTTTTCTGCA TCAACTGCTA TGACGGTTAA 120
 GANTGTCAGT ATACAAGNAG GGATAGAAAA CTGGTACTGT TTAAATAAT CTGTAATNTC 180
 AATGTTTTTT TTTTNTTTC GGAAANNCNT NGTTTTGCCG GNTTN 225

(2) INFORMATION FOR SEQ ID NO: 2974:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 169
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03517
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2974:
 GATCTTCTGT GGTGCTTAAG GNAACTTACT AGAGCTCCAC TAACAGTCTC ATAAGGAGGC 60
 AGCCATCATA ACCATTGAAT AGCATGCAAG GGTAAGAATG AGTTTTTANC TGCTTTGTAN 120
 GCAAATGGNA AAGGTCAATA AAGNTATATT TCTTTAGNAA ATGGGCAAA 169

(2) INFORMATION FOR SEQ ID NO: 2975:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 167
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03518
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2975:
 GATCCCAACT CCCATGACCT CTGGCTTCAG TGGTGGGTGG GGCAGGGCAG ATGAAAGGGC 60
 TTCAGTGGGA ACCTCTGAGA GCATTTTCCT GTTCCCCCTA TCAACCGCCC CCAGTGATAA 120
 CATCTGTGAA GCCAGCCATT ACTCAATAAA CTGCAAACTT GTCTAAA 167

(2) INFORMATION FOR SEQ ID NO: 2976:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 167
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03519
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2976:
 GATCAGNAGC CCACTGATAA GGGGCCCTAG GGTACAGGGT GCTGCCCAGC AGGTCGCCAC 60
 CGAGTGTCTT CTCATTTTAT TTCAGCTCCA TTTTGCCCAT AGATGGGCAG AGGGGTGAGA 120
 TTGGCTCATC CCCCTTCCAG ATTCTGCAAT AAAGCGGTGT GAGGAAA 167

(2) INFORMATION FOR SEQ ID NO: 2977:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 167
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03520
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2977:

GATCATTCCC TCTTTTNGGA TGTATAAGAN CCTTCCGGAC AACAGAACCT ATTTNTGGAA 60
 TTGCAGAAGA TAACATATTT CCCTTATTTN NATTTAATCA CCATAAACCA TACCTATTTA 120
 ATGAGTGTAT TCTGTGCAAT TTTTCTCTCA GATTGTNTTT AACTNNN 167

(2) INFORMATION FOR SEQ ID NO: 2978:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 166
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03521

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2978:

GATCGACTGC CAAGCAGCAG CCGCTGCCGA GGGGCTGCGT CTGACATCCT GACCTCCTGG 60
 ACTGTAGGAC TATATAAGT ACTACTGTAG AACTGCAATT NCCATTCTTT TAAATGGGTG 120
 AAAAATGGTA ATATAACANT ATATGATATA TAANCCTTAA ATGAAA 166

(2) INFORMATION FOR SEQ ID NO: 2979:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 165
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03522

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2979:

GATCTGGGCG GGGTGGTGCG CTCCTCAGGG CGGATGCCAC CGGGTTCCCC AGGGGAATAC 60
 ATGTCCCCAG CTCTGGGAGG GGTTTGCTAC TGGCCTCCTA CTTTCCTCCC TAGGTGGACA 120
 GTGCTCCTCT AGAGAGCTGC GACTTTAATT AAAAACAACA GGAAA 165

(2) INFORMATION FOR SEQ ID NO: 2980:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 165
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03523

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2980:

GATCAGTGTC AGATATTGTT GAGGGAAGTA ATTTTATAAA GTTACACAAA GGTAGTTATA 60
 AAAAAAGCCC AGTTTGTTTT TCAGAAGGTG ACTTTNATGT GCTTGAAAAG TTTAATATTT 120
 GANTATTGTG TTTAACCACA TGGTATTAAA ATTTTGCAAT ATAAA 165

(2) INFORMATION FOR SEQ ID NO: 2981:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 163
 (B) TYPE: nucleic acid

(C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03524
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2981:
 GATCATGAAA TAATGTGCTT TGTA AAAAGA TTTCAAGTTA TTAGGAAGCA TACTCTGTTT 60
 TTNAATCATG TATAATATTC CATGATACTT TTATAGAACA ATTCTGGCTT CAGGAAAGTC 120
 TAGAAGCAAT ATTTCTTCAA ATAAAAGGTG TTAAACTTT AAA 163

(2) INFORMATION FOR SEQ ID NO: 2982:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 162
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03525
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2982:
 GATCCGCCTG CTTCCGGCCTC CCAAAGTNCT GGGATTATAG GTGTGAGCCA CCCTGCTCAA 60
 CCAGGTTTNA TTATTTAANT TAGTTAACT TTGGATAGAT TGTATAATAT ATAGTTTAAT 120
 GTAATCATGC TCATATTTTT NAAATAAATA AAACACTATA AA 162

(2) INFORMATION FOR SEQ ID NO: 2983:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 161
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03526
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2983:
 GATCACTTGT TGTTTTACTA AAGAAAGATT ACTTAGAGGA AATAAGAAAA ATCATGTTTG 60
 CTCTCCCGGT TCTTCCAGTG GTTTGAGACA CTGGTTTACA CTTTATGCCG GATGTGCTTT 120
 TCTCCAATAT CAGTGCTCGA GACACAGTGA AGCAAATTAA A 161

(2) INFORMATION FOR SEQ ID NO: 2984:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 161
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03527
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2984:
 GATCTGAGGT CTAACATTGT TATCCTATAT CATTTCATC CCAAGTAGTG ATATCTGTGA 60
 AATCACAGGT TTGATGTGTG CTAATNATGT ATTCTTCTAA TACATATTAA AAGACATAAC 120

TATCAAAACA AAATAAATTT GTCTGTTTTTC AACCAAAGAA A

161.

(2) INFORMATION FOR SEQ ID NO: 2985:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 161
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03528

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2985:

GATCTCCATT TGATATTTTC ATTTGTATAA CTCATTTGCA GTCTGAAAAT TTTTTTTAGT 60
GCCAGTCCCT GAACATATCA TTGAAAGTTA ATTTTCTTTG CATTTTAAAA TATCTGGATT 120
ATGAAGAAAA AGTGATGAAA ATAAATTAAA ACTGAATTAA A 161

(2) INFORMATION FOR SEQ ID NO: 2986:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 160
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03529

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2986:

GATCTGTGCT AGCTGTGAGG CAGCTCTGGA ACGTGAAGAG CTGTTTGTT TGAACCGTGA 60
ACAAACTGT GTTTTGAGTT TAGCTGACAT TATGGAAAAA AGTTCATCAC GTGACTGTTA 120
ATGTAAACCT GGTATTAAA ATAACNATGA AATTACCAA 160

(2) INFORMATION FOR SEQ ID NO: 2987:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 157
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03530

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2987:

GATCTCTCTG TNACTGACTT TGTGACTGTC CTGTGGTTTC TCCTGCCATT GCTTTGTGTT 60
TGGAAGGACA TGATGGGGGT GATGGACTGG AAAGAAGGTG CCAAAAGTTC CCTCTGTGTT 120
ACTCCCATTT AGAAAATAAA CACTTTTAAA TNATAAA 157

(2) INFORMATION FOR SEQ ID NO: 2988:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 157
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03531
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2988:
 GATCAAANCA CCTNGGAGTG GTCACCAGGG GGACAGGGAG CCCCCACCA ATGTATCANT 60
 GGGTGATTTA TNATGCCTTC TGCCCTTTGG CGAGTGAATG GNTTTCCTCAT AGGGGAAGTT 120
 GGCCTCCCTC CGTGAGCTTT GGAAATNTTT TCTAATN 157

(2) INFORMATION FOR SEQ ID NO: 2989:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 157
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03532
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2989:
 GATCCGAATG GNCTGGGTGA GCACGAATTA CCGAGGCCCTT CCCTTTGNTA CAGTCCAGGA 60
 TTTGTAAGGN ATGAAGACCC CTGGNCCCCA TTCTNTTGGG GTCCATACAT ACTCTCCGAA 120
 GATAGCAACT TGCTTCAGGT CAAAGTNAAC CCNAGAN 157

(2) INFORMATION FOR SEQ ID NO: 2990:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 114
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03533
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2990:
 GATCTCCTTA CGTAGCAGCC AAAATAAATG AAGCAAAAGA CTTGCTAGAA ACAACCACCA 60
 AACATTGATG CTTAAGGACC AACTGAAGG AAAAAAAAAG AGGGGACTTC GAAA 114

(2) INFORMATION FOR SEQ ID NO: 2991:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 155
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03534
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2991:
 GATCTGATTT ACAAGAAAAA GTCAGAGCTA AACACTAGTG ATGGCATAGC ATTACTGAAA 60
 TCATTGTTTC TTAATTTTCAT TTTACTACAT TGTGAAGTTG TGATTCAGAT TCCATTTTCT 120
 CAGAGAATTA AAAACAAAAA AAGTACTCTT GTAAA 155

(2) INFORMATION FOR SEQ ID NO: 2992:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 156
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03535
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2992:
 GATCTATTTTC TNAGTATGTG GTTCATGCTG TTGTGAAAAA TGTTTTACCT TTNACCTTTG 60
 TCAGTTTGTA ATNAGAGGAT TTCCTTTNAC CCTTTGTAGC TCAGAGAGCA CCTGATGTAT 120
 CATCTCAAAC ACAATAAACA TGCTNCTGAA GGCAAA 156

(2) INFORMATION FOR SEQ ID NO: 2993:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 154
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03536
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2993:
 GATCAAATTA GTAATTNNGT TTATGCTGCT CCTGATATAA CACTTTCCAG CCTATAGCAG 60
 AAGCACATTT TCAGACTGCA ATATAGAGAC TGTGTTTCATG TGTAAGACT GAGCAGAACT 120
 GAAAAATTAC TTATNGGATA TNCATTCTNN NCTN 154

(2) INFORMATION FOR SEQ ID NO: 2994:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 154
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03537
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2994:
 GATCTCATTT ATAATTAAAT TATGTCTATT GGATTGTTTT NATTGTA CTT NATGTTTTNT 60
 NAAGAAATTG TGATTAAATA TAACTTAACG ACTTTCTATT TTNCAGTTAT TTTAATTAGT 120
 TACTTCATTT AANCTTTTGG CATTNCATGA TTTN 154

(2) INFORMATION FOR SEQ ID NO: 2995:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 153
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03538
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2995:

GATCATATAT GTNTTAGTGG ACAGGGGTCT GAAGTACACT GGAATTTACT GAGAAACTTG 60
 TTTGTAAAAA CTATAGTTAA TAATTATTGC ATTTTCTTAC AAAAATATAT TTTGGAAAAT 120
 TGTATACTGT CAATTAAAGT GTTTTTGTGT AAA 153

(2) INFORMATION FOR SEQ ID NO: 2996:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 153
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03539

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2996:

GATCAAACTA CACATGNGTT TTCATTCCAA AAGTGGGTTC TAAANGCCTG GCTGCATCTG 60
 TATGNAATCA AGGCACACTC CAGGAAGACT GCCGCGTCGC GCCAACACGT CATACTCAAT 120
 GCCTCAGACT TTCATATTTT TGNNGTGCTG NNN 153

(2) INFORMATION FOR SEQ ID NO: 2997:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 152
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03540

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2997:

GATCCCAGCA TCTTCTCCAC TTCAGCGCTG AGTTCAGTAT ACACAAGTGT CTGCTACAGT 60
 CGCCAAATCA CCAGTATTTG CTTATATAGC AATGAGTTTT ATTTTGTTTA TTTGTTTTGC 120
 AATAAAGGAT ATGAAGGTGG CTGGCTAGGA AA 152

(2) INFORMATION FOR SEQ ID NO: 2998:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 152
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03541

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2998:

GATCATTTGG ATATAGCAAT CTACTCTGAG AAATGGAACA CAAGGAGTTA CCTATCACTT 60
 TCAC TTATAA TTCCAAAAGA TGACTACAAC CATGTCCATG CTCAGATTCA AACAGTTTTT 120
 CATATCACTT TTGGGTGGTA ATTACAGTTT TN 152

(2) INFORMATION FOR SEQ ID NO: 2999:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 152
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single

(D) TOPOLOGY: linear
(vii) IMMEDIATE SOURCE:
(B) CLONE: HUMGS03542
(ix) FEATURE:
(D) OTHER INFORMATION: "N"=unidentified base
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2999:
GATCCCTGTN TGCNCGNCCC CTCTGCAATG TATGCCCTT GCCCCTTCCC CACACTAATA 60
ATTTATATAT ATAAATATCT ATATGANGCT CTTAAAAAAA CATCCCAACC AAAACCAACC 120
AAACAAAAC ATCCTCACAA CTCCCCAGGA AA 152

(2) INFORMATION FOR SEQ ID NO: 3000:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 151
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear
(vii) IMMEDIATE SOURCE:
(B) CLONE: HUMGS03543
(ix) FEATURE:
(D) OTHER INFORMATION: "N"=unidentified base
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3000:
GATCCAGAAG CAAACACAAG CAATGCAAGA CCTCCACAGA GTGAGCTTGG AGAGAGAGAA 60
AGCCAAGATA AGAGAGGAGT ATGANGAGAA ANTCAGAAAG CTGGAAGATA AAGTGGAGCA 120
GGNAAAGAGA AAGANGCAAA TGGNGANGAN N 151

(2) INFORMATION FOR SEQ ID NO: 3001:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 151
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear
(vii) IMMEDIATE SOURCE:
(B) CLONE: HUMGS03544
(ix) FEATURE:
(D) OTHER INFORMATION: "N"=unidentified base
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3001:
GATCTGGAGA TAANTTTATG CCTTTGGCCA TAGACAGGAC TGGAATCCCA GTTCTGCCAC 60
TTACTGGCTG TTTGACCTTA GGCAAGCCAC TCCTCCTTN TNAGCCTCAG TTTCTTTNCC 120
TGTAAGATAA AAAGAATGAN TCATTACTAA A 151

(2) INFORMATION FOR SEQ ID NO: 3002:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 150
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear
(vii) IMMEDIATE SOURCE:
(B) CLONE: HUMGS03545
(ix) FEATURE:
(D) OTHER INFORMATION: "N"=unidentified base
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3002:
GATCAGGGCT GGGGCGGGGA AACAAGGGAA GGACCTTGA AGGGGCTGNN CCCAGGCCTG 60
GGGGGCGAGTC GTGGGAGCCC CTCTCANCTG TGGGGCTGGC ACAGAGCCCC AGGCAAGCTT 120
TTAATAAACT GTTGGTTATT CTAACAGAAA 150

(2) INFORMATION FOR SEQ ID NO: 3003:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 149
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03546

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3003:

```
GATCTCAAAA ATAGGTAATT TTTCTTTGCC GACCTGTAAA AGTGTGCCAA TACACTAAAT 60
TTGTGATTTT AAATTAATTC CTCCAGCTGT TGAAATGAAG TCTGCCAAAT CTTGCTCTAA 120
CAAATAAAAT GTTATCTAAA TGAAGTAAA                               149
```

(2) INFORMATION FOR SEQ ID NO: 3004:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 149
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03547

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3004:

```
GATCCTAAAA GGGAAAATTG CTTGGTAAC TTTNAGATTC CTGTGGAATT GTGAATNCAT 60
ACTAAGCTTT CTGTGCAGTC TCACCATTG CATCACTGAG GATGAACTN ACTTTNGTNT 120
TTNGGAGAAA AAAAAGTGTN CTGCTTGTN                               149
```

(2) INFORMATION FOR SEQ ID NO: 3005:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 242
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03548

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3005:

```
GATCCTAGGA TGCGTCCCAG ACGCTCAGTC AGAAGTGCTG GAGGTGGGGC CTGGGAAGCT 60
GTATTTGTAA TNAAGTCTGG NGTTTTTTGT CCATTAAAGT GTATCTTTGT CCATCCTATA 120
AGNTTANNGG AAAGAAAAAG CATCTCAAAT NAGTGTAAGT TGTTCTTGAG AAAAAAATGT 180
ATCAGACTTT TATGATTGTA ATGAAATGTA TTATAGNAAA ANATAAACAC NTTTAAANTA 240
AA                                                                 242
```

(2) INFORMATION FOR SEQ ID NO: 3006:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 148
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03549

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3006:

GATCCAGTTG TACTTAAGTG TGTAACAGGA ATATTTTGCA GAATATAGGT TTAAGTGAAT 60
 GAAGCCATAT TAATAACTGC ATTTTCCTAA CTTTGAAAAA TTTTGCAAAT GTCTTAGGTG 120
 ATTTAAATAA ATNAGTATTG GGCCTAAA 148

(2) INFORMATION FOR SEQ ID NO: 3007:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 148
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03550

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3007:

GATCATCGTG CTCTCAGACT CTGATTAGCT GCCTCCCCTT CTCCCTGCCT CCAGAATGTT 60
 CTGGGATAAC ATTTGGAGGA AGGTGGGAAG CAGATGACTG AGGAAGGGAT GGACTAAGCT 120
 AATCCCCTTT TGGTGGTGTT TCTTTAAA 148

(2) INFORMATION FOR SEQ ID NO: 3008:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 148
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03551

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3008:

GATCAGTCCA CCCAGAGTTA GACATTGTTT TTGTAGAAAA CAGGTATTTA TTATGTCTAG 60
 GGTTTTGTGT TTTTTTTTTT TCCTNANAGG NTAAAAGCCT TTATACAGAA ANAATTTGGA 120
 ACCTTTNATA TAAAACCTTT TCTTTAAA 148

(2) INFORMATION FOR SEQ ID NO: 3009:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 171
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03552

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3009:

GATCGCTGTG GTTCTTATTA TCAAAATTAA GTTTACTTGT ATACGGAACA ACCACAAGAA 60
 ATTTGATTCT GTAAAGAATC CTCTTTAGCT GTGGCCTGGC AGTATATAAA TGGTGCTTTA 120
 TTAAACAGAA TACCTGTGGA GGAAATAAAG CACACTTGAT GTAAAANTAA A 171

(2) INFORMATION FOR SEQ ID NO: 3010:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 145
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03553

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3010:

```
GATCTTTTTTA TTTTGCAATC CTGGGCCAGC TAGAAGCCAG GAGCTGATTG ACCTTTTAAC 60
TTTTTTCAGT GGCCACATTT TGGTTATCGA TGTACCTAGA AGTATGTAAA TNAGATTAAA 120
TTTCTCTTCT GGAAACACCC TGAAA 145
```

(2) INFORMATION FOR SEQ ID NO: 3011:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 144
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03554

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3011:

```
GATCATAGAG AATGGTGCTT TTTACTACAG TTAGCACATG CATTTTTAGA AACTACTACA 60
TGTTTTAGAG AATCTTTGCT GTGTATATGT AAAGTGTATT GTTCAACTGT TAACAAATAA 120
TAAATTATTT CATTATTAAA GAAA 144
```

(2) INFORMATION FOR SEQ ID NO: 3012:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 144
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03555

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3012:

```
GATCTGCCCT NCTCCTTCTA AAGGGTAAGT CATAATCTGT GTAATACTAC AATTNATGGG 60
NTGCTCACTA TGCCCTGTTT CTNTNCTAAA CAATTTACAT GTAATGTCTC ATTCCTCACA 120
ATAACCCTTG TAAAGTGGGC ANNN 144
```

(2) INFORMATION FOR SEQ ID NO: 3013:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 142
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03556

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3013:

```
GATCCCCAGC TGCCTCACTT CTCTCTTGAG AACTTGGCTC AGGGCTCCTG AGGACCTTTC 60
CCAGCATTAC CTTCCCTTCC CTTGAAAGGC AATTGTTGGC TGTTTTTCATA AGCAGGAAAA 120
NTAAACAGAA GTATAAAGGA AA 142
```

(2) INFORMATION FOR SEQ ID NO: 3014:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 142
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03557

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3014:

```
GATCAAATGT GCCTTAATAA ATTTNTTTTC ATTTAGATTT CAAACAGTGA TAGACTTGCC 60
ATTTTAATAC ACGTCATTGG AGGGCTGCGT ATTTGTAAAT AGCCTGATGC TCATTTGGAA 120
AAATAAACCA GTGAACAATA AA 142
```

(2) INFORMATION FOR SEQ ID NO: 3015:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 147
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03558

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3015:

```
GATCTAAAGA AACAGTTGGC TGTAAGCTGAG GGGAAACCCC CTGAAGCCCC TAAAGGCAAG 60
AAGAAAAAGT AAAAGACCTT GGCTCATAGA AAGTCACTTT AATAGATAGG GACAGTAATA 120
AATAAATGTA CAATCTCTAT ATACAAA 147
```

(2) INFORMATION FOR SEQ ID NO: 3016:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 140
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03559

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3016:

```
GATCCCAGCA ATGAAGTGT CTAGGGAAAG TGGCTTCCTG CCCAACTGG ATGGGACACG 60
TGGGGAGTGG GGTGGGGGGA GCTATTTCCA AGGCCCTCC CTGTTTCCCC AGCAATTAAA 120
ACGGACTCAT CTCTGGCAA 140
```

(2) INFORMATION FOR SEQ ID NO: 3017:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 153

(B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03560
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3017:
 GATCTCAGCT TTGAGAAGCC TTCAGCTCCA GGAATCCAA GCCTCCACAG CGAGGGCAGC 60
 TGCTATTTAT TTTCTAAAG AGAGTATTTT TATACAAACC TACCAAAATG GAATAAAAGG 120
 CTTGANGCTG TGGCCTGAGT GCCTCACTGG AAA 153

(2) INFORMATION FOR SEQ ID NO: 3018:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 134
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03561
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3018:
 GATCACGAAG GTGGTTTTCC CAGGGCGAGG CTTATCCATT GCACTCCGGA TGTGCTGACC 60
 CCTGCGATT CCCCAAATGT GGGAACTCG ACTGCATAAT TTGTGGTAGT GGGGGACTGC 120
 GTTCGCGCTT TAAA 134

(2) INFORMATION FOR SEQ ID NO: 3019:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 131
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03562
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3019:
 GATCTATCTT NCAGAAAGTA TGTTTTCTT CATAAAAGTG CCTCTTAATT GGCCATTGTA 60
 CCAGCCACTT GTCCTAGCCA AATGTCCAA ACACGCCCTT GGGCCCCGCC ACGTTACAAT 120
 CCACANNNNN N 131

(2) INFORMATION FOR SEQ ID NO: 3020:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 131
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03563
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3020:
 GATCACTGTN ATGTGTGGTC CATCTCTGAC CAAAACGTTA TGCAGTACGT GACTGTATCC 60

TNATCCTCAA TAATCCTTGG TTATTATTCT AGAATTTCAA ATAAATGGAA TCATATCATT 120
TACTATGTAA A 131

(2) INFORMATION FOR SEQ ID NO: 3021:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 207
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03564

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3021:

GATCCAGTGA ATGATTCAAG AGAGCTACAT TTGAAGCCTG TACAAAAGCT TATCCCTGTA 60
ACACATGTGC CATAATATAC AAACCTTCTAC TTTCGTCAGT CCTTAACATC TACCTCTCTG 120
AATTTTCATG AATTTCTATT TCACAAGGGT AATTGTTTTA TATACACTGG CAGCAGCATA 180
CAATAAANCT TAGTATGAAA CTTTAAA 207

(2) INFORMATION FOR SEQ ID NO: 3022:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 130
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03565

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3022:

GATCCTGAGA ATTACTTTTA ATAAAATCAT TTTTTTGCTG TTATTAAAC TAGNCNNGAA 60
TTGCCTAAAN CCAAGAACTC TGCTTGATAA AATAAGCATA GTNTTAGGAA CAGCCATGCA 120
GATATAANTN 130

(2) INFORMATION FOR SEQ ID NO: 3023:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 129
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03566

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3023:

GATCATCGAC CCCCAAGGGA CCCGCAGACC CTTAAAAAAA TCACCCACAA CCCTCTGGAA 60
GTGGCCTTGC CCGGTCCCCT TCCAGGGGC GAGGTCGGCA AAGCAACATG GCAGAGCAGT 120
CATAGGAAA 129

(2) INFORMATION FOR SEQ ID NO: 3024:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 129
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single

(D) TOPOLOGY: linear
(vii) IMMEDIATE SOURCE:
(B) CLONE: HUMGS03567
(ix) FEATURE:
(D) OTHER INFORMATION: "N"=unidentified base
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3024:
GATCACCTTT TTTTATGCG GTTGTGAATA GCAGTCTGCA TCCTAAGTTT AAAATATTTG 60
AGAATCCTCT ATGGGACTCT CTGTAAATNT TTAAATACT GTTGTTTTC ATAAATATTT 120
TATACTAAA 129

(2) INFORMATION FOR SEQ ID NO: 3025:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 129
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear
(vii) IMMEDIATE SOURCE:
(B) CLONE: HUMGS03568
(ix) FEATURE:
(D) OTHER INFORMATION: "N"=unidentified base
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3025:
GATCAGCTGT CCTCTCTGAA AAAAATTGCA CCNNTTTTTC TTTTAAATA TTTTGTGCA 60
TCTTCGTAGT AATGTAATTG TATTTATGCG CTGCTTTTTT ATAAAAAAT AAAATAAAT 120
AAATGGAAA 129

(2) INFORMATION FOR SEQ ID NO: 3026:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 129
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear
(vii) IMMEDIATE SOURCE:
(B) CLONE: HUMGS03569
(ix) FEATURE:
(D) OTHER INFORMATION: "N"=unidentified base
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3026:
GATCTAAATN TGACTGTGGT TGCACATATC TGTGNATATA CTAAAAACCA NTGATTTGTA 60
CACTTTACAT GGGTGAATTG TATGGTGTGT GAATTATATT TCAATAAAGC TGGGTGTTT 120
TTTGTCAAN 129

(2) INFORMATION FOR SEQ ID NO: 3027:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 140
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear
(vii) IMMEDIATE SOURCE:
(B) CLONE: HUMGS03570
(ix) FEATURE:
(D) OTHER INFORMATION: "N"=unidentified base
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3027:
GATCCCAGGA TTCAGTATTC CTGGCCCAGA GGNCNTTGCT GGCTACTGGG TGTTAGTTTG 60
CAGTCCTGTG TGCTTCCCTC TCTTATGACT GTGTCCCTGG TTGTCAATAA AATATTTCT 120
GGCCTCCTGG AATCTNTAAA 140

(2) INFORMATION FOR SEQ ID NO: 3028:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 127
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03571

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3028:

```
GATCCTACGA CAGGACCCAG ATGCCAGTGA AAGTGACCAC AGCCCTGCTC TAGTCACCCC 60
GGAAGCTGAC CAGTCTACGC ACGGCCGAAG CTTGCTCAAG GAAGTAAATG TAGTTAGAAA 120
TCTTAAA                                         127
```

(2) INFORMATION FOR SEQ ID NO: 3029:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 223
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03572

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3029:

```
GATCTAGAGT ATAAGCTGCG CAAGGGCAGA AGTTTTTATC TGGTTTGTTT ATGGATGTAT 60
TCTAAGAGCT GAGAACAGGG CCTGGACACA ATAAGCATTC AATAAATATT TACTGAATGA 120
ATGAACCTCT ACCTATATTC CTATTTATAA TTTGGCTCCA CTTTATCCTA CTTTAGCTCC 180
CATTCAATTC AATAAAAAAA ACATTTTTTTN GNACACATAT AAA                     223
```

(2) INFORMATION FOR SEQ ID NO: 3030:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 132
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03573

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3030:

```
GATCCATCTC AGTCACTTTT TCCCCTGCAA TCGTCTTGT GAAATTGTGT AGAGTGTGTTG 60
TGAGCTTTTT GTTCCCTCAT TCTGCATTAA TAATAGCTAA TAATAAATGC ATAGAGNAAT 120
TAAACTGTGA AA                                         132
```

(2) INFORMATION FOR SEQ ID NO: 3031:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 123
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03574
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3031:
 GATCCAGTTT TNCTACAAAG AACAAAGTGG TTGACAACAG TGACAGTAAT TNCTGGAGCA 60
 AAACCAAAAG ACATAGGTAA AGANCATATA ATTGTTAATA AAGCACACTG CTTTCAACAC 120
 AAA 123

(2) INFORMATION FOR SEQ ID NO: 3032:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 124
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03575
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3032:
 GATCCAAGTG TTTTAACAAT TGGGGCTGTT AAGTCTGACC ATACATCACT GTGATAGAAT 60
 GTGGGCTTTT TCANGGGTGA AGATACAAGT CTTAACCACA GTGTAACCTA CAGTTTCCTT 120
 TAAA 124

(2) INFORMATION FOR SEQ ID NO: 3033:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 270
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03576
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3033:
 GATCAGAGCA AGCCTTGCCT CTTATCTTCG GGAAACCAGA ATATGTTTGG GGTGGTAGGA 60
 GCCACACAGA CTCTTCTGAG CCCCTCACT CACTTCCTTC CCCCTGTGCC TTTCTTTTGA 120
 GAGTGAAGGT GGGTNGAGTT GACCAGAGAA AGGGGAGAGA ATTCGGGAAA GACCCAAAGT 180
 NTTTGTAATT CTTCTTTGTC CTTTACCTA CAGAAATGGT CACATGGTTC TATTTAAATA 240
 GCCTAATAAA CACATCTGGA GCCTGTCAAA 270

(2) INFORMATION FOR SEQ ID NO: 3034:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 127
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03577
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3034:
 GATCTCAAAG ATACACAGTA CCTACTTAAT TCCAGCTGAT GGGAGACCAA AGAATTTGCA 60
 AGTGGATGGT TTGGTATCAC TGTAATAAAA AAGAGGGCCT GGAATTCTT GCGATTCCAT 120
 CTCTAAA 127

(2) INFORMATION FOR SEQ ID NO: 3035:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 120
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03578

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3035:

GATCCCTACC TGCTCCCCGC TCCGGTTGCC AGCAGCACTC ACTGCACTCC TTTGTCATAT 60
 ACTCTGCATC ACTGTCATAC TCACANCTTC GTGAATAAAG TTGTGTGCTT TATTCGTAAA 120

(2) INFORMATION FOR SEQ ID NO: 3036:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 120
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03579

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3036:

GATCAGGGAC CTCACGCATC TTTTCTCAT ATACATGGNC TCTCTGTTGG CCTGCAAACA 60
 CATTNCTTC TCCGCTTATN AGACTATTTA NCTTTAATAA AGCACTGGAT ATAAATCAAA 120

(2) INFORMATION FOR SEQ ID NO: 3037:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 176
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03580

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3037:

GATCTAAAGC TNAACAATGA AAATCTTCAG CAGAAATAGA AATNGCCGTG GATTGTAATA 60
 CACACTGAAA TTCTNACTTT CTGAATTTAA ATGTAGAATA AATTTNACCA ACTTGGAGTA 120
 CTGTATGAGT ATTCNAGTA GGGGGAATAA ACTCAAANTT ATATTTNTNT TGCAAA 176

(2) INFORMATION FOR SEQ ID NO: 3038:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 119
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03581

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3038:

GATCTGAAAT GTCTGAGAGT AATAGTTTCT GTTGAATTTT TTTTGTTC A TTTTCTGCA 60
 CAGTCCATTC TGTTTTNATT ACTATCTAGG CTTGAAATAT ATAGTTTGAA ATNATGAAA 119

(2) INFORMATION FOR SEQ ID NO: 3039:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 234
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03582

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3039:

GATCAGAATA TGACATTGCA GTAAAGNGCT TAAATAGTTT CATCTNTGGT TTTTTTTTCT 60
 AGACACTTTT CTTTTATCCC AGNCATCTCT GAATTTACAT TTTATATTAA AGAAATTGAG 120
 CTATCCATAC AACCTGTATT TACTTTAATT TCACTATGCT TTCAGCTTAC TTTATTGTAT 180
 GNTATGTAGG TCTAAAATAT AGTTTGAGTC AAATAAAATT AGGGGGGCTT TAAA 234

(2) INFORMATION FOR SEQ ID NO: 3040:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 132
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03583

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3040:

GATCATGACA CTNAAGCGTG ATGAGACGCT CCAGGATGGC TGTNATACTC ACTTCTGCAA 60
 GGTCAATGAG AGAGGAGAGT ACTTCTGGGN GAAGAGGGTC ACAGGCTNCC CACCCTTNA 120
 TGAACACANG TN 132

(2) INFORMATION FOR SEQ ID NO: 3041:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 118
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03584

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3041:

GATCCCTAAA AATGTTGAGG GACTTCTGTT CATTCATCCC GAGAACATTG GCTTCCACAT 60
 CACAGTATCT ACCCTTACAT GGTTTAGGAT TAAAGCCAGG CAATCTTTTA CTATGAAA 118

(2) INFORMATION FOR SEQ ID NO: 3042:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 117
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single

(D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03585
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3042:
 GATCGGACCG TTCATGCTGC CTATAGGCAT TATGTCCCTC AAAAAAAAAAC TCCTTTNCCT 60
 GCATCCTGTG TACAACATGA CATTTTAAAC CAATCCAATC TAAAAATGTN CCAGAAA 117

(2) INFORMATION FOR SEQ ID NO: 3043:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 117
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03586
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3043:
 GATCAGAAGT GGCAGTCTAT AACTNAAAAT GTGGTAAAAGT ACTTGANGCA AACATCCCGC 60
 ATCGCTGTTG GACCTCTNAN ACTTTCTACT TTAACAGTTT CACAGTCTTT NCCAGTN 117

(2) INFORMATION FOR SEQ ID NO: 3044:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 116
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03587
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3044:
 GATCTCCTCC ACCCTGTACC AGGCAGCAGC TCCAGTCCCTC ACACCAGCCA AGGTCACAGG 60
 CAAGAGCAAG AAGAGAACT GACCCTGAAT GTTCAATAAA GTTGATTCTT TGTAAA 116

(2) INFORMATION FOR SEQ ID NO: 3045:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 116
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03588
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3045:
 GATCTGAAAT CNNGGTCTTC CAAGGNAGAA AATCGANCTG GGAATAAAAG AGAAGACCTG 60
 TGATGGGGCA GCAGTGACGC NCTGTGGGGG GACAGGTGGA CGTGGAGAGC TCTTTN 116

(2) INFORMATION FOR SEQ ID NO: 3046:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 116

(B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03589
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3046:
 GATCCTGAAG AAATCATATG TTAAACATAC TTTNACACCT ACTGTGTTAT AAAATATATC 60
 ATCAGATGTG CCTTGAGAAT AGTATATGTA ACATTAAAAA AAAGTTGCTG GCTAAA 116

(2) INFORMATION FOR SEQ ID NO: 3047:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 115
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03590
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3047:
 GATCCTTGGA CTTTGTGTTT TTGATTNTAT GTTGATATTC TAAAAACATC TATTTTAATG 60
 TTATTTCTGT TCTAAAAATA AGATAATAAA TATTAACAAA CTTTGCTTTT TTAAA 115

(2) INFORMATION FOR SEQ ID NO: 3048:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 179
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03591
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3048:
 GATCTCAACA AGAAGCTGTA TTTTAAGTAT TAAGACAGTT CTTTGTTAGC TGGTTTCTAG 60
 TTGGTTATCT AGTTACCAAT GCTGCAGTCC TGCAGTCACC TATACATTAT TTAAATNTAT 120
 TTAAGTGTTA AATGCGCTAC CCACCAATAA TGAAATAGAC CTTTATGAAA ACTGTGAAA 179

(2) INFORMATION FOR SEQ ID NO: 3049:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 239
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03592
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3049:
 GATCCTGAGG AAAGACTTGG AAGAGACCAG CATGTCTTCA GTAGCCAAAC TACTTCTTGA 60
 GCATAGATAG GTATAGTGGG TTTNCTTGAG GTGGTAAGGC TTTGCTGGAC CCTGTTGCAG 120
 GCAAAAGGAG TAATTGATTT AAAGTACTGT TAATGATGTT AATGATTTNT TTTTAAACTC 180

ATATTATTGG GATTTTCACC CAAAATAATG CTTTTTGAAA AAAGGAAAAA AAAACCGGN 239

(2) INFORMATION FOR SEQ ID NO: 3050:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 114
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03593

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3050:

GATCTTGGCT TTCTNTTTC TCTTCTCCTN CAGGGTGTCT GTNACTGCNN GGTACTTCCA 60
GCCAACCTCG TGAGCCAGGC GCCCCAGATA GGCAAACTTT CTTGTAGGCT TCAN 114

(2) INFORMATION FOR SEQ ID NO: 3051:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 113
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03594

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3051:

GATCTGTATA TGCTATCCTA ACTGTTAATT GTATTATTGA TTATNTTGAT TATCTTGCTT 60
GAAGGTTTCAT ACTTTTCAAT TTGATAGAAA TAAAGTTTTT NCCTGCTTAT AAA 113

(2) INFORMATION FOR SEQ ID NO: 3052:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 113
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03595

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3052:

GATCCTCTCT TCATTTTACT CAGCCAGGTT TTGTACTGAT GTACAGGTGT TAAATNACTT 60
CAAGTATTTT TGTAAGAGGT GTATATAATT CAATAAAAAA GGTAACAT AAA 113

(2) INFORMATION FOR SEQ ID NO: 3053:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 161
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03596

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3053:

GATCGACAAG GAGTA~~CT~~TTGC TAAAAATGGC AACAGAGGAG TGAGGAGTGC TGCTGTAGAT 60
 GACAACCTCC ATTCTATTTT AGAATAAATT CCAACTTCT CTTGCTTTCT ATGCTGTTTG 120
 TAGTGAAATA ATAGAATGAG CACCCATTCC AAAGCTTTAA A 161

(2) INFORMATION FOR SEQ ID NO: 3054:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 111
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03597

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3054:

GATCCGNACC CCAAGCCCAT GCAACCCACG CTCGGTCCCG TTCCGGCCCC TGCNCCCCGC 60
 TGCNCTTCGC TCCCCGNCCT TGCNCCGTTA GTAAACATCG CTCAAACGAA A 111

(2) INFORMATION FOR SEQ ID NO: 3055:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 110
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03598

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3055:

GATCTAACAA GTTACATTGT ATAGTTTCTG GGACTGTTTG AATATTCTAT TCCAATGGGC 60
 ATTTATTTT TATCCTGTCA TTAAAAA AAGACTGTTA CCCTGCTAAA 110

(2) INFORMATION FOR SEQ ID NO: 3056:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 109
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03599

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3056:

GATCTCCTCC ATCCTGCTGC CCACCCCTCT TGAGTGTCTT AAGGGACAGA NCTTCCACC 60
 CCTGGAAGAT GGAAATAAAC CTGCGTGTGG GTGGAGTGTT AGGACCAA 109

(2) INFORMATION FOR SEQ ID NO: 3057:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 109
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03600

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3057:

GATCAGAGTG TTNTAAATCA TCACGCCCTT AGCTTATCCC TNGTCGAGCC AGGACACGGG 60

GTGCTTCAGT GGGTCTGTNA CCCTCTCTCC TTGAAGCATG TTGCTGNNN 109

(2) INFORMATION FOR SEQ ID NO: 3058:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 108

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03602

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3058:

GATCCCTGAA TGTGAACCTG AAGTTCAAAG GACTTGGAAA GCTCTGGAAT GTGTTGGTTT 60

TTCCCCCCCCA AAATGGGTCC TAAGGAGGGT AAAGTGACTT GTTCAAA 108

(2) INFORMATION FOR SEQ ID NO: 3059:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 108

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03603

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3059:

GATCAGTTTC TTTNGCTTCA AGATTTGAAA CCAGAAAGGA AAGTCCNACT TGCAGATGAT 60

TGTCCTTAAA ACCTAATGGA AAANTAAAAG ANAGACATAC CATGGAAA 108

(2) INFORMATION FOR SEQ ID NO: 3060:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 107

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03604

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3060:

GATCCATCAT TGTTCAAAA CTTCACTGTC AAGAACCTTT TCGTTGCATA ATGTGCAAAT 60

AGTTAAAACC ACTGTACTAT ATACTTAAAA ATGATTAAGA TAGTAAA 107

(2) INFORMATION FOR SEQ ID NO: 3061:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 252

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03605
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3061:
 GATCTGGCAG CTGAGGCCCG AGGCAGGGTT GGNGTGATGC CAGGGCAAAG TGGTGAGGAG 60
 AAAACAGGAA NCGGGCTTTC NCCNCATTGG TAAATGGGAA AGAGGTGAGC AACTTAAGAT 120
 TGTCACAATT AATCACAAGT GTACAGGATT AGACTGGGTT TATATTTAAC TCTTGCTNCA 180
 TAGGTGTACC ATTTAAAGAG TGFTATTTAA TGCTAAGTTT AACTGCTTTA ATAAAGTTTA 240
 TTTTAAATA AA 252

(2) INFORMATION FOR SEQ ID NO: 3062:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 103
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03606
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3062:
 GATCAACAAA ATAACCTGTA TCTCCTGCTT AANTCCTTTA TACTACCTGG NGAAAAGTAT 60
 TTCCCATATT TCCAATAAAT GTCAGACACT ATTGAGAAAG AAA 103

(2) INFORMATION FOR SEQ ID NO: 3063:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 103
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03607
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3063:
 GATCCTGNAT NANGCCCGGG CCAGCGAGTG CAGGGACGTG GAGGGNTTCA AAACCGAGAT 60
 GGCCATGCTG GTGACCCAGG CCAGGAAGAA CACCATCACC CNN 103

(2) INFORMATION FOR SEQ ID NO: 3064:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 159
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03608
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3064:
 GATCCTCACA GTCAAGTGAC GAGGCTGGGG CTGAAAGCAG AAGCATGCAC AGGGAGGAGA 60
 CCACTTTTAT TGCTTGCTN GGTGGATGGG TCAGGAGGGT CTGAGGGCCT GTCCAGACA 120
 ATAAAGGTNC CCTCAGCGGA TGTGGGCCAT GTCACCAA 159

(2) INFORMATION FOR SEQ ID NO: 3065:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 102
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03609

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3065:

GATCCTATCG CCTTTNAGTA GAATATGAAA TATTCTTTNA GAAATCCAAT ATAAATAGGT 60
 TATAATAGCC ATATNCTTNA TNACTTTTATT GAGATATAAT TN 102

(2) INFORMATION FOR SEQ ID NO: 3066:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 186
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03610

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3066:

GATCTNAGCT CCCACCTCCC TTCCCACCTA CTGCACTTTC CCCCTTCCCG CCTTCCAAAA 60
 CCTGCTTCCT TCAGTTTGTA AAGTCGGTGA TTATATTTNT GGGGGCTTTC CTTTNATTTN 120
 TAAAATGNAA AATTTATNTA TANTCCGTAT TTAAAGTTGT AAAAAAATA NCCACAGAAC 180
 AGNGAN 186

(2) INFORMATION FOR SEQ ID NO: 3067:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 100
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03611

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3067:

GATCTCAGAC AGTGTGCGGC GGCACATGAG CGGCTTTCCG CAGTGTCCCTG TTTTGAGCCA 60
 CTGCAGTCTG GGCCCCATCA TTAAACGGGC TGCCTTTAAA 100

(2) INFORMATION FOR SEQ ID NO: 3068:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 98
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03612

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3068:
 GATCTCCAGT NAGACTCCAG GGTTCAGAC AGAGGCCAGT NTTGGCCACT CACCCACAC 60
 CCCGCGGACC CCAATAAAGG CTTGCATAGC TCCAGAAA 98

(2) INFORMATION FOR SEQ ID NO: 3069:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 98
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03613

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3069:
 GATCCTGAAG CTTNACCGGG CTCAAAGGG CAAATGGAGC TGCCCTCNTC TGTATCAGGT 60
 TTATTGGTTG TACATATAAA TNATACTTNC CTTTCAAA 98

(2) INFORMATION FOR SEQ ID NO: 3070:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 107
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03614

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3070:
 GATCCTGTTT AACAAAGATA CTTGAGACAT CCATTGTGTT TAATGAAATC TGTATGGATA 60
 TGGAAATNCT TGCCCTAATA AAAGCCTACA TATACCTTCT GGTTAAA 107

(2) INFORMATION FOR SEQ ID NO: 3071:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 97
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03615

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3071:
 GATCTNTCCG TTCTCAGGCC AGACCCCTGG TGCTGCCGTT AATTTTTTTT TCTCTGTCTT 60
 TGCTGCAATN TTNAAATAAA ATGCCAAAGA ACACAAA 97

(2) INFORMATION FOR SEQ ID NO: 3072:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 95
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03616

(ix) FEATURE:
(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3072:
 GATCCTAAAC AAATCATCTT TGTCAGTTAA GTATAGTTGC GCAAAAATTG TTAAATCCTT 60
 TGTCTTTATT AAAGAAAAAT TTGAGTAACA TTAA 95

(2) INFORMATION FOR SEQ ID NO: 3073:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 94
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03617

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3073:
 GATCTAAGTG ATGAGTCTAG GTGTGTTATT GTNCAGTTTT TNCAACTTTC CTGGAAAACG 60
 AACTTTTCAA AATAAAAAAT TGGAAAAATA GAA 94

(2) INFORMATION FOR SEQ ID NO: 3074:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 183
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03618

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3074:
 GATCACTTTG AGAAACAAAC TTTTATTAAA TGTAAGGCAC TTTTCTATGA ATTTTAAATA 60
 TAAAAATAAA TATTGTTCTG ATTATNACTG AAAAGATGTC AGCCATTTC ATGTCTTGGG 120
 AAACAATTTT TTGTTTTTGT TCTGTTTTCT TTTTGCTTCA ATAAACAAT AGCTGGCTCT 180
 AAA 183

(2) INFORMATION FOR SEQ ID NO: 3075:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 92
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03619

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3075:
 GATCTGCCAT ATTTGNTNTT GGTTTTAATT TTCATATCCA GCCTAAAGGT GGTGTTTAT 60
 NATATAGTAA TAAATCATTG CTGTACAATA AA 92

(2) INFORMATION FOR SEQ ID NO: 3076:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 92

(B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03620
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3076:
 GATCAGGCTG CCTCCTGGNT TGGNTGTCGG GGGAGCTGTC CGGCAGCCTG GCAGGGAGAT 60
 GCAAGGCCTA AAGTAAATT TTNTCAAGTA AA 92

(2) INFORMATION FOR SEQ ID NO: 3077:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 91
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03621
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3077:
 GATCTAGCCC CTTCTTCAGG CCGAGAGAAT TTCGAGCGTT ANCCGTCTCT TGGCCACCAG 60
 CTAAATAAAC GGATTCTTCA TGTGTCTCAA A 91

(2) INFORMATION FOR SEQ ID NO: 3078:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 91
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03622
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3078:
 GATCTGCTAT TGTTATTTCT CCTCTTTATT GGAAAAGGC CTCAGTTTAA ATTATTTTCT 60
 TCCCAAATA AATNACACAT TTGGTTACAA A 91

(2) INFORMATION FOR SEQ ID NO: 3079:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 239
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03623
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3079:
 GATCCTGCAT CAGCATTGTA TATATGGNCT TAAGTGCCTG GCCTCCTTAT CCTTCAGAAT 60
 ATTTATTNA CTTACAATCC TCAAGTTTAA ATTGATTTTA AATATTTTCC AATACAACAG 120
 TTTAGGTTTA AGATGACCAA TGACAATGAC CACCTTTGCA GAAAGTAAAC TGATTGANTA 180
 ANTAANTCTC CGTTTNN TTC ANTTNATTC AGTGTAATGA NAANGTTGCT TAGTATTTN 239

(2) INFORMATION FOR SEQ ID NO: 3080:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 196
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03624

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3080:

```
GATCCCTGCC CTGCACCAGC ACCCTGANAT GGAGCTGAGA CTTTATTTAT TGGGGGTAGG 60
GGGATGGAGG AGGTCCCTCC AACATGTTTG GACCCAGCTC CTTTGGGTTC CACTGACACC 120
CCTGCCCTG CCCCTGCCCA GAACCAAGTG CCATTTCTCA CTCTGGAGCC TTAATAAACT 180
GCAATTTGTA TCCAAA 196
```

(2) INFORMATION FOR SEQ ID NO: 3081:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 90
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03625

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3081:

```
GATCTGTGTA CTGTTTACTT CCCACTTCCC AGAATCCCTT GTATCTCCTT TCTCGGGAAT 60
TGTATTTTCT AATAAATGAC ATTTGAGAAA 90
```

(2) INFORMATION FOR SEQ ID NO: 3082:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 90
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03626

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3082:

```
GATCTCTGGA AGTGTAATTN TGAAAGAAAC TTNCTTGCAG CTTTAACAAA ATGAGAAACT 60
TNCCAAATAA AACTTGTTTT GAAGTTTAAA 90
```

(2) INFORMATION FOR SEQ ID NO: 3083:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 89
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03627

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3083:
GATCCTCGGG AAGAACAAAG CTAAAGCTGC CTTTGTCTG TTATTTTATT TTTTGAAGT 60
TTAAATAAAG TTACTAATT TTGACCAA 89

(2) INFORMATION FOR SEQ ID NO: 3084:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 88
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
(B) CLONE: HUMGS03628

(ix) FEATURE:
(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3084:
GATCAATCTT TGATGGTGAG GGTTTTAGAA AGGAAAAATA TAGTAAAATG TGTAATTTGT 60
CTTAATAAAA TCTATCTNTA CATCTAAA 88

(2) INFORMATION FOR SEQ ID NO: 3085:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 94
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
(B) CLONE: HUMGS03629

(ix) FEATURE:
(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3085:
GATCTAGATT GGGTGAGGGG GACGGGGATG TNAGGGAGGC AAGTGTGTTN TGTTACTGTG 60
TCAATAANCT GGTTTAAAGT TGTAAGTGN GAAA 94

(2) INFORMATION FOR SEQ ID NO: 3086:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 89
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
(B) CLONE: HUMGS03631

(ix) FEATURE:
(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3086:
GATCTGAATT TCACAAAAAG TTCATGGAGA AATATATTAA ATAGTACAGT TTTATGTGCT 60
TAATTAAAGA CTGTAAAACG TAAAGGAAA 89

(2) INFORMATION FOR SEQ ID NO: 3087:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 84
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03632

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3087:

GATCATACCA CGGCACTCCA GACTGGGGAC CAAAGTGAGA CCTTGTTTCT AAAANTTAA 60

ATATTTAGAA TGTTTCCTAG CAAA 84

(2) INFORMATION FOR SEQ ID NO: 3088:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 82

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03633

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3088:

GATCCCAAGG ATGGAGAACA ACTTACCCAG TAGCTAGAAT GTTAATGGCA GAAGAGNAAA 60

CAATAAATCA TATTGACTCA AA 82

(2) INFORMATION FOR SEQ ID NO: 3089:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 81

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03634

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3089:

GATCTCCAGA TGTGCATTC CCTCTCTTAT TTAAAGTTAT GTTAAGATTA CTAAACAAT 60

AAAAGCTCCT AAAAAATCAA A 81

(2) INFORMATION FOR SEQ ID NO: 3090:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 79

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03635

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3090:

GATCCAACCG TGCCTGAAGC TAGAATATCC CCTGGACTTT TCAGTTATGT GAACCAATAA 60

ATACCCTTTT TTGCTTAA 79

(2) INFORMATION FOR SEQ ID NO: 3091:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 78

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear
(vii) IMMEDIATE SOURCE:
(B) CLONE: HUMGS03636
(ix) FEATURE:
(D) OTHER INFORMATION: "N"=unidentified base
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3091:
GATCTGNGAN ATATTATGGT AATTGTGTCG GGGCGCCATG AACCGCACCC ATATAACACG 60
GTAAACTTAA TCAGCAAA 78

(2) INFORMATION FOR SEQ ID NO: 3092:
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 77
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear
(vii) IMMEDIATE SOURCE:
(B) CLONE: HUMGS03637
(ix) FEATURE:
(D) OTHER INFORMATION: "N"=unidentified base
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3092:
GATCATGCTG AAAACCACTC AAACGATTAT ATTTTTCACA TTATAAGAAG TAAAATATAT 60
TATTCTGAAT AATGAAA 77

(2) INFORMATION FOR SEQ ID NO: 3093:
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 75
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear
(vii) IMMEDIATE SOURCE:
(B) CLONE: HUMGS03638
(ix) FEATURE:
(D) OTHER INFORMATION: "N"=unidentified base
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3093:
GATCTGTGCA TTGCTCCTTC TGATTGTGTC TAAGTTGTTA AATAAGAGGG ACCCTGAGAA 60
AGGCCTTACT CTAAG 75

(2) INFORMATION FOR SEQ ID NO: 3094:
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 75
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear
(vii) IMMEDIATE SOURCE:
(B) CLONE: HUMGS03639
(ix) FEATURE:
(D) OTHER INFORMATION: "N"=unidentified base
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3094:
GATCACACAG CTAACGAGGC TGCCTCCAGC ATTTCTGAT TTCCTCTGTG GTAATAAAAG 60
CTTTCTGTGC TTAAG 75

(2) INFORMATION FOR SEQ ID NO: 3095:
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 78

(B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03640
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3095:
 GATCAGAACT TACAAACCAA ACTTTTATTC TGAGAACTG GCTGTACAAT ATNTGAAAAG 60
 AAAGTGACAT GNAGGAAA 78

(2) INFORMATION FOR SEQ ID NO: 3096:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 74
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03641
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3096:
 GATCTTTTNN AAGTNTTCTG AAAGGAAGTA GACAGTATTA CACCCTGAAT AAATAAGGTG 60
 TTGTTTTCCA CAAA 74

(2) INFORMATION FOR SEQ ID NO: 3097:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 267
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03642
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3097:
 GATCTACTTC CCATGCAGAA GAGAAGTCAC ATCTTCCAGG GAATCGCAAT GTTGTGGCGT 60
 CTGACTTGTA TGTACATTT GTGTAAAATG GTATATNCTT TAAAATAGTG TTGATAACTG 120
 GAATATTGTA TGTATGCTTG GAGATGCTTT GTGTGAACCT AAGACTGTCA CTCAACAGAT 180
 GTTGGATTGG GGNAAATCCA AAGCACAAC TCAAANTAAN NTACATTTTT AGGTTTCGAT 240
 GCTGCAAANC ANANAANANN ACANNAN 267

(2) INFORMATION FOR SEQ ID NO: 3098:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 73
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03643
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3098:
 GATCATGGTG ATGTACGGGG TGAATTCTCT TGCCGTGTTG CAAATGTGTA AAATAAAGAT 60

TATCTGGCAG AAA

73

(2) INFORMATION FOR SEQ ID NO: 3099:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 71
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03644

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3099:

GATCCNAGNT CTANCGTCAT ATAATCATTT AATATAATTA AAGTTTAATT GCTGAAATAC 60
TTATAATGAA A 71

(2) INFORMATION FOR SEQ ID NO: 3100:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 69
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03645

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3100:

GATCATGCAA TTCCTTCAAT TATGATGGAA AGACTTGAAC TTTCTGAAAT AAAACAAAAA 60
TACAGCAA 69

(2) INFORMATION FOR SEQ ID NO: 3101:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 67
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03646

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3101:

GATCCATTTA TTGCAATTCA TGCTGAATCT AAATTATAAA ATTTAAATTA AAATGCATAT 60
CCTCAA 67

(2) INFORMATION FOR SEQ ID NO: 3102:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 65
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03647

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3102:
 GATCCGAAAC CTGTTAAACA ATAAGATGTG TTCTCGGAAA ATNAAACAAG AGGTATCACA 60
 AGAAA 65

(2) INFORMATION FOR SEQ ID NO: 3103:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 64
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03648

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3103:
 GATCATCTCT TCTCCATAAG ATAGTGTGAT AAACACAGTC ATGAATAAAG TTATTTTCCA 60
 CAAA 64

(2) INFORMATION FOR SEQ ID NO: 3104:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 64
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03649

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3104:
 GATCGCTCCA ATAAACATAT ATTGTGAAAA TGCATCCACA ATAAATGGAA TTCCTTCCTG 60
 CAAA 64

(2) INFORMATION FOR SEQ ID NO: 3105:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 63
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03650

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3105:
 GATCTACCTG TCTTGTTGCC ACATGTTTCT AAACTTTCCA ATAAATCACC TTCTACTGAC 60
 AAA 63

(2) INFORMATION FOR SEQ ID NO: 3106:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 68
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03651

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3106:
 GATCAGCATC AGGCTGTTAT CAAGTCTGTT GGTGCTAAAA AGTAAAAANAT GAAATGTTCA 60
 AAGAGAAA 68

(2) INFORMATION FOR SEQ ID NO: 3107:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 58
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03652

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3107:
 GATCTGTCTG GCTCCNTTGT TTCTTATTAA ATAAATTCT GTCTTCTATT GTTTCAAA 58

(2) INFORMATION FOR SEQ ID NO: 3108:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 58
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03653

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3108:
 GATCAGCCTT NNTATAATGT TTTTAAATC ATTTCTAAAT AAAACAGAAA TACAGAAA 58

(2) INFORMATION FOR SEQ ID NO: 3109:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 55
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03654

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3109:
 GATCTAGACT TATATGAATA AATNAAATTA CATGCCAAGG GCCCTAAAAA GCAAA 55

(2) INFORMATION FOR SEQ ID NO: 3110:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 53
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03655

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3110:
 GATCAGGGCC GAGCAGAACC GCACTCTTCC CAAATAAAGC TTCCTCCTTG AAA 53

(2) INFORMATION FOR SEQ ID NO: 3111:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 55
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03659
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3111:
 GATCATATTT TTTNATACAG GTATTTCAAT TAAAATGTTT TTGTACATAG TGAAA 55

(2) INFORMATION FOR SEQ ID NO: 3112:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 76
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03661
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3112:
 GATCCAATCA NTTAAATAAA CCTGTATGTA TATGCATATG TNTACATGCA TATCCCCTCC 60
 TGCTAAAACT CATAAA 76

(2) INFORMATION FOR SEQ ID NO: 3113:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 451
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03679
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3113:
 GATCCCTCAG TTTCTTCTTG ATTTTCAGCAT GTNTCGGGTT CCTAATTTAT GGTATGAGTT 60
 AGCAAATTTA ACCATTGTGT TTGTGCCCTA CCCAGGGGAC TCCCCAGTTT CTGACTTGAA 120
 GTAGACTGAG AAGAATCCAC GAGGTGCTAT CTGGCCAGAT TTAAGTAGAT TCTATTTTCTC 180
 TGGTTCTCCC TCTCCCTGAG GACCTCTTAT TTNATTGTCC CCTCTTCTAG GTTAATTCTC 240
 CTTTGATTG ACTTTGTTGA GAAGGAGGTT GGACAGTAGA TTAGCAAAGT TCCAAGTGCA 300
 AAATTACAGT GTGTTAGAGT GTGGGGGGAA AATTAGTCTT ATTTTTCCT ACATGGGATA 360
 CAACACTGTG AATTCAATCT TCAACCTGAA GGGCCCTGCA GTTCCTCCTA AAACATNGTT 420
 GTTTGNTTTT CTTTAACCAA GGTTTAAGCT N 451

(2) INFORMATION FOR SEQ ID NO: 3114:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 445

(B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03680
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3114:

```

GATCTAAGGA TGACTTGGAC ACACTCCNTG GCACTGAAGA GTCTGAACAN TGGCCTGTNA 60
TTGGTCCATT CCAGGACCTT CATTTCGATA AGGTATCAAA CCACANCAGC CTCTGATTGG 120
CCATGGGCAG ACCTGCACTN TGGCCAATNA TTGGTTCATT CCAGGACATT CATTTCGATA 180
AGGAGTCAAA CCACANCAGT CTTGGATTGG CTGTGAGCCA ATTCACCTCA GTCTCTAATT 240
GGCINNAGAGT CAGTCTTTCA TTTACATAGG GTGTAACCAT CAAGAAACCT CTACAGGGTA 300
CTTAAGCCCC AGAAGATTTT NCTACCAGGG CTCTTGAGCN ACTTGCTCTA GCCCACTCCC 360
ACCCTGTGGA ATGTNCTTTC ANCTTTTGNT TGGTTTCAAG TNCCTTGGTG CTTCCAATAA 420
NTNCCACTTC CTTACCACC CNAAA 445
  
```

(2) INFORMATION FOR SEQ ID NO: 3115:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 439
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03681
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3115:

```

GATCGGCGCC ACTGCTGTCC TGCTGGCTTC NNCTGCGCAG CANGGGGTAC CAAGTGTTTN 60
CCCAGGGAGG CCCC GCGCTG GGACGCCCC TTAAGGGACC CAGCCTTGAN ACAGCTGCTG 120
TAAGGGACAG TACTGAAGAC TCTGCAGCCC TCGGNACCCC ACTCGGAGGG TGCCCTCTGC 180
TCAGGCCTCC CTAGCACCTC CCCCTAACCA AATTNTCCCT GGACCCCAT TCTNAGCTCCC 240
CATCACCATG GGAGGTGGGG CCTCAATCTA AGGCCTTCCC TGTAAGAAGG GGGTTGTGGC 300
AAAAGCCACA TTACAAGCTG CCATCCCCTC CCCGTTTNAG TGGACCCTGT GGCCAGGTGC 360
TTTTCCCTAT CCACAGGGGT GTTTTGTGTG TGTGCGCGTG GTGCGGTTTN AATAAANGTT 420
TGTACAACCT NTGTTTAAA 439
  
```

(2) INFORMATION FOR SEQ ID NO: 3116:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 431
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03682
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3116:

```

GATCTTGAAG TGCTTTTTAT ACAGCTCTCT AATAATTACA AATATCCGAA AGTCATTTCT 60
TGGAACACAA GTGGAGTATG NNAAATNNN TATGAATTTT TCAGATTATC TAAGCTTGCA 120
GGTTTTATAA TTAGAAGATA ATGTGAGANT TAATGGGGTT TATATTTACA TTATCTCTCA 180
ACTATGTAGC NCATATTACT CACCCTATGA GTGAATCTGG AATTGCTTTT CATGTGAAAT 240
CATTGTGGTC TATGAGTTTA CAATACTGCA AACTGTGTTA TTTTATCTAA TCCATTGCTT 300
AATGAGTGTG TTTTCCATG ATTGAATATA CCGTGTTCA TATGTTAGCA TGGCAGCATT 360
  
```


TTCAGNTAGC TTTTGGTTT GTTGGGAAGT TGGGGTTTTG GGGGGAGGGG GGAGTNTTNG 420
TACGTTGCCT N 431

(2) INFORMATION FOR SEQ ID NO: 3117:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 427
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03683

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3117:

GATCAAAGTA TTATATGCTG TGTGCTTTTA AGGTGTTTGT AAGTACTGAA AAAGGCAAAA 60
ATNCTTTCTA CATTGACATT CATTCTATT TNACTGGGCA CCTATGAATG TATGCTGTGT 120
GCTAGAAATA GACTAAAACA TATTCCTATA GCATGTNAGT GTGTTTGCAT GTTGCTGAA 180
AATCCTTTGT GTATAANCCA GTTTGTAAGG TTCTCTGGGT TAGGTAGGGA CTCTGCAGTT 240
TCTNCCTGTC NAAATCTCTC CTACCAAGAT GGTGTTCCAC TGTCCAGCCC AGCATGAGTA 300
GCAGGTAGNG CACAGCTTTA CTGGCTGGTT TGTATGCTTT GGTTTTAGGT GCAATTGTTG 360
TGGGTNGATT TACTTTNTCC AGAAAACCAT NGTATTGNNN ATGTCCTNGG ACCGGTGGAA 420
AATAGGN 427

(2) INFORMATION FOR SEQ ID NO: 3118:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 423
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03684

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3118:

GATCAAAAAT ATTAGAAAAA ATAAAANTAA TACAAATAAA AATACAGTAT AACAGTTATT 60
TAAATAGCAT TTACATTGCA TTAGGTATTA GTCTAGGGAT AAAGTATACA GCGGATGTN 120
CGTTGGTTAT ATACAAATAT GTCATTTTAT GNAANNGACT TGAGTATACT TGGNTTTTNG 180
GTATCTNTGG GTTGGGGGGA CGGTCCAGGA ACCAATACCC CATGGATACC AAGGGACAAC 240
TGTAATTATT TNCNTTATT GTCATTGCAA GCTTCTTATG GAACTTTAT AGGGAATGAN 300
AATATACATG TTAAGGANGA TTAAACATTA GATAGTAGAT GGTTTGTTGC ATGCTAGAAC 360
TGTTAGTATT GTTGATTCAA TTACTTTGGT TTCATGAAAA ANTAAACGGT AANTATCTTT 420
AAA 423

(2) INFORMATION FOR SEQ ID NO: 3119:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 421
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03685

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3119:

```

GATCGAGACC ATCCTGGCCA ACATGGTGAA AACTCATCTT TACTAAAATA CAAAAAATTA 60
GCCACGCNTG GTGGCGCACG TTGTGGTCCC AGCTACTCGG GAGGCTGAGG CAGTGGAGTC 120
ACTTGAACCC GGGAGGCAGA GGTTCAGTG AGCCGAGATT GCACCACTGT ACTCCAGCCT 180
GGCGACAGAG CAAGATTCTN TNTGCCCCC CACCAAAAAA AAAGANTGAA AACTGATAT 240
TTGCTACAAC ATGGNTATAC CTCCAAAGCA TCCTGTTAAG TGAAAACAGG GAGACACAGT 300
CACGTACTAT ATGATTGCNC TTACGTGAAA TATCCACANN GACGNNTCCA TGGNGACCAG 360
GCAGATTGCC GNTTGCCAGA GGCCAAGGT TAGGGAAAAA TTGGTGAGGG ACCCTGCGTG 420
N 421

```

(2) INFORMATION FOR SEQ ID NO: 3120:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 410
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03686

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3120:

```

GATCTATGAC TTCTCAAAGC CGGGTCATGA ATGTCCATAA AATGCTAGGC ATTCCTATTT 60
CCAATATTTT NATGGTTGGA AATAATGCTT CANATTTGGA ACTGGACCCC ATGAAGGATA 120
TTCTCATCCT CTCTGCACTG AGGCAGATGC TGCGGGCTGC AGATGATTTT TTAGAAGATT 180
TGCCTCTNGA GGAAACTGGT GCAATTGAGA GAGCGTTACA GCCCTGCATT TGAGATAAGT 240
TGCCTTGATT CTGACATTTG GNCCAGCCTG TACTGGTGTG CCGCAATGAG AGTCAATCTC 300
TATTGACAGC CTGNTTCAGA TTTNNCTTTN GTNCGTTTTN CNTTCTGTCC TTGGACCAGT 360
CATATCTCAN GTTCCAAAGG CCANAACCCT GAGGAGCGGT NNGGCTAAGN 410

```

(2) INFORMATION FOR SEQ ID NO: 3121:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 402
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03688

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3121:

```

GATCTGAGGA CCCTGTACTG GTTACTCCTG TACACGTTCA CAATTTTCNT GTAAATNTAT 60
TAATATACTG AGCAGTCCAG GAGCAGCCAT TAGGCAAACA CCACTCCTTG CTTCTTCAT 120
GTGACCTATC ACTGAGCTCA CCAGCTGAGG TCAATNACAT TCTTCCCAAC CTGGAGAACA 180
GAATTTGGGT CTGCTCAGAG GCATGATGTG AAACATGTCT GGGATAAAAG CTTTGTTCTA 240
TTGACAGCAA ACCTTTTTGT GTTAAGGGGT AGGGGAAGAG CANGTGAAGG ATGCAGATTA 300
ATTTCTATTT AGGANTATAC TTTTNTATAT NGTTTGAAAT TTTGNNCTTG TAAAAATATT 360
CATCCATNTT TTNACCAANA NAATTCCTT GTGGACNGGT TN 402

```

(2) INFORMATION FOR SEQ ID NO: 3122:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 409
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03689

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3122:

```
GATCAGTTTG ATTCTGTAAT GAGCACAGCA CCTAATATTT TGAGGAGCTC TGTTTTGAGG 60
ACCAATGCTT AAGGTGGACT TTGTTTCGTAA ACAATATCCC AATAGATTTG TTGACTTGAG 120
GTCTGGTTTG GTTTTGTTTT TGTTTGTGTT TGTTTGTGTT TGTTTCCAAT AGAATTAAGA 180
ATTCTAATGT TGAAAACTG CACAAATTTT TATGGGACAA AGCCTAGAAA AGAGAAATGT 240
AGTTTGAATC ATAATCTAAA TCATCGTATG ATAGANGAGG GAAAGTTTTG GTGCCATAAT 300
TTCTCCTTTC ACTGGTGTTG GGNCTTAAAT CAAGTTGAAA TGTATTTCTG TACCACAATT 360
TTANGGCTTT CAATAAAAAG TTTTAAATNG TCTAGGTGAC CATTCCAAA 409
```

(2) INFORMATION FOR SEQ ID NO: 3123:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 400
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03690

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3123:

```
GATCAACATC CACAGCGAGA CCTCCGTGCC CGACCATGTC GTCTGGTCCC GTTCAACAC 60
CCTCTTCTTG AACTGGTGCT GTCTGGGCTT CATAGCATTC GCCTACTCCG TGAAGTCTAG 120
GGACAGGAAG ATGGTTGGCG ACGTGACCGG GGCCCAGGCC TATGCCTCCA CCGCCAAGTG 180
CCTGAACATC TGGGCCCTGA TTCTGGGCAT CCTCATGACC ATTGGATTCA TCCTGTTACT 240
GGTATTCCGC TCTGTGACAG TCTACCATAT TATGTTACAG ATAATACAGG AAAAACGGGG 300
TTACTAGTAG CNGNCCATAG CCTGCAACCT TTTGNACTTC ACTTGTGCAA TGCTTGGCCC 360
TGNACGNTGG GGCTGTTGCC CTTGCCCCNT TTGGTCCTGN 400
```

(2) INFORMATION FOR SEQ ID NO: 3124:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 400
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03691

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3124:

```
GATCCTTCCT ACTTTGCTTC TNTCCACCCA TGACCTTTTT NACTGTGGCC ATCAGGACTT 60
TCCCTGACAG CTGTGTACTC TTAGGCTAAG AGATGTGACT ACAGCCTGCC CCTGACTGTG 120
TTGTCCCAGG GCTGATGNTG TACAGGTACA GGCTGGAGAT TTNACATAG GTTAGATTCT 180
CATTCACGGG GNNGGTTAGC TTTAAGCACC CTAGAGGACT AGGGTAATCT GACTTCTCAC 240
TTCCTAAGTT CCCTTCTATA TCCTCAAGGT AGAAATGTCT ATGTTTTCTA CTCCAATTCA 300
TAAATCTATT CATAAGTCTT TTGGTACAAG TTTACCATGN TAAAAAGGAA ATGTGATTTT 360
GGTCTTCCCC NTCTTTTGCA CTTTTTGGA ATANAGGGTN 400
```

(2) INFORMATION FOR SEQ ID NO: 3125:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 397
 (B) TYPE: nucleic acid

- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS03693
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3125:

```
GATCCTNAAT TTNAAAATTT NACACCATCA TAAATNAACA AAGGTAGGAA GGAGTTTGGC 60
TTCAATAGCT TACAGTAAAA GGAGTAAAGG AGTTCAGCCT CAAAACGATA TTGTTGACCT 120
GTNATGTTAT GAAAAATAAT CCAGTGTTTA TACTTAACGG ATGCCATCCC TTATNATTTA 180
CTATTTTCTT AGTCTAACTA AACAATCTTT ATTAATAATA GCAATGATAT TTGACATGGG 240
CCTAAGAAAT ATATAGTTAG CTAACAATAT TGTCAGTTAG AGGGATTCTT TTTCTAAATT 300
AAGTACAGAT TTCTTCACCA AACTCCAGGN TAACAGAAAN GGGGCCATAA AATTGGNCC 360
ATAGTTTCTG GGTAAATAA NTGGTAATTT TAAANTN 397
```

(2) INFORMATION FOR SEQ ID NO: 3126:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 392
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS03694
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3126:

```
GATCAAGTAA CATGTTGCAT GTGGCTTACT CTGGATATAT CTAAGCCNT CTGCACATCT 60
AAACTTAGAT GGAGTTGGTC AAATNAGGGA ACATCTGGNT TATGCCTTTT TNAAAGTAGT 120
TTTNTTTTAGG AACTGTCAGC ATGTNGTNGT TGAAGTGTGG AGTTGTAAC NTGCGTGGAC 180
TATGGACAGT CAACAATATG TACTTAAAG TTGCACTATT GCAAAACGGG TGTATTATCC 240
AGGTACTCGT ACACTATTTT TTNGTACTGC TGGTCCTGTA CCAGAAACAT TTNCTTTNAT 300
NGTNACTNGC TTTTNAACT TTGTTTAGCC ACTTAAATC TGCTTATGGC ACAATTNGCC 360
TCAAANTCCC ATTCCCANGT NGGTAATATT GN 392
```

(2) INFORMATION FOR SEQ ID NO: 3127:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 391
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS03695
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3127:

```
GATCTAAGGA TGA CT TGGAC ACACTCCCTG GCACTGAAGA GTCTGAACAC TGGCCTGTNA 60
TTGGTCCATT CCAGGACCTT CATTTCGATA AGGTATCAAA CCACATCAGC CTCTGATTGG 120
CCATGGGCCA GACCTGCACT CTGGCCAATN ATTGGTTCAT TCCAGGACAT TCATTTCGAT 180
AAGGNGTCAA ACCACAGCAG TCTTGGATTG GCTGTGAGCC AATTCACCTC AGTNTCTAAT 240
TGGCTGTGAG TCAGTCTTTC ATTTACATAG GGTGTAACCA TCAGGAANCC TCTACAGGGT 300
ACTTAAGCCC CAGGATGATT TTGGCTTACC CGGGNGTTTC TTGNGGCCNC TTTGGTNTTG 360
GCCNAGTTNC NCACCTTTGT GGAATTGGT N 391
```

(2) INFORMATION FOR SEQ ID NO: 3128:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 389
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03696

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3128:

```
GATCTCGGCT CACTGCAACC TCCACCTCCC GGGTTCAAGC GATTCTCCTN CCTCAGCCTC 60
CTGAGTATCT GGGATTACAG GCGTGACCA CCATGCCTGG CTAAGTTTGT TGTTTTTTTT 120
AGTAGAGATG GGTTCCTACC ATATTGGTCA GGCTGGTCTC GAACTCCTGA CCTTGTGATA 180
CACCTGGCCT CAGCCTCCCA AAGGGNNGGT GCCACGCGC CTGGCCCATT TTTCTTTTTT 240
TTGACCCATA CTTAATGTTG CAGAACTAT TCTTGTCTA ACATTATCTC TCATGTACAG 300
TAATTATATG TAAATTAATT GAAGCAAATN TGGGAACTT TACAATAGAA ATAAAGNTAG 360
GCAGCCAGCG TNTGTTTCCA NTTNTNAAA 389
```

(2) INFORMATION FOR SEQ ID NO: 3129:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 380
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03697

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3129:

```
GATCTCGGCT CACTGCAACC TCCACCTCCC GGGTTCAAGC ATTTCTCCTG TCTCGGCCTC 60
CCGAGTAGCT GGGATTACAG GCGTGAGCAC CATGCCCAGC CAGAAGTACT ATNATTTCTT 120
ATAACTACAT ATGAATCTAA AATTATCACA AAAGGAACT TCTTTTAAGA AAAAGAAAAG 180
AATCAGAACA TAAATATACA GCATGGCAAA ACTACATCTA AAACAAGTAT TATAGGTCTC 240
ATGGTGGAAA ANTTGGACCC ACAAGAAAAG TTGTTAATTA TCTCTGATAT TCTGAACCAT 300
TGNTATCTGC AAAATGATTA CTAGGTATGT GCAATGANGG CTATTGATGT TACCCTGTAT 360
ATCTGCACAC TGTGTTCCAN 380
```

(2) INFORMATION FOR SEQ ID NO: 3130:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 352
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03698

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3130:

```
GATCTGCTAG TGCTGTAATA TTGTAAATAC TGGACTCAGG AACTTTTGTT AGGAAAAAAT 60
TGAAAGAACT TAAGTCTCGA ATGTAATTGG AATCTTCACC TCAGAGTGGA GTNNNNNCTG 120
CTATAGCCTA AGCGGCTGTT TACTGCTTTT CATTAGCAGT TGCTCACATG TCTTTGGGTG 180
GGGGNNGGAN GANGAATTGG CCATCTTAAA AAGCGGGTAA AAAACCTGGG TTAGGGTGTG 240
TGTTACCTT CAAATGTTT TATTTAACAA CTGGGTCATG TGCATCTGGT GTAGGAAGTT 300
TTTTCTACCA TAAGTGACAC CAATAAATGT TTGTTATTTA CACTAGTCTA AA 352
```

(2) INFORMATION FOR SEQ ID NO: 3131:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 375
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03699

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3131:

```
GATCGTGGGT TGCCGAGAGG ACCTGAGCGC TCGGCTCTG CTGAATGGAN CCGGGTCCCT 60
CAGGCCGTGG ACGCCCTCGG AAGGGGGGTG ACTGTGGCTT GTNTCTGGAC AGGAATGTGT 120
CATTTCACAC ATCTTCTAGA GGGCTGCCAG CTGGGAAGAC AGTTATNAGG GCAAGCTGTG 180
CTCTGAGTTT CGGGTTCCTG TCCTACAAAG AACGTGCGGT GCTGCGGGCN AGGGCCCCGG 240
CACGGACAAG GGCCACTGCA GAGTGTGTTT CTNCTCGTNA GCTGCCCTGG GCANGGAATG 300
GGCTGGNTNA TGCAGTTGGA TGCACATCTN ATTCTGTCAT GAATGTCCAG TAAAAAATCT 360
GAAATTGGTT GCAA                                     375
```

(2) INFORMATION FOR SEQ ID NO: 3132:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 369
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03701

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3132:

```
GATCCAACCC AAGGGCAAGG GCATCCTGGG AAATACCATC AAGTGAAGT TCACCAAGTN 60
CCTCATNGAC AAGAACGGCT GCGTGGTGAA GCGCTACGGA CCCATGGAGG AGCCCCCTGGT 120
GATAGAGAAG NACCTGCCCC ACTATTTCTA GCTCCACAAG TGTGTGGNCC CGCCCGAGCC 180
CCTGCCCCACG CCCTTGAGC CTTCCACCGG CACTCATNAC GGCCTGCCTG CAAACCTGCT 240
GGTGGGGCAG ACCCGAAAAT CCAGCGTGCA CCCC GCCGGA GGAAGGTCCC ATGGCCTGCT 300
GGGNTTGGCT CGGCGCNCCT ACCCCTGGCT ACCTTGTGGG AATAAACAGA CAAATTAGCC 360
TGCTGGAAA                                     369
```

(2) INFORMATION FOR SEQ ID NO: 3133:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 367
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03702

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3133:

```
GATCTTGGGA AAATTGCGGA GTGTACATTT ACAAAGATGC GTTCAAATAG TGCTCTAAGA 60
GTTTTGTTC GTGGCTCACT TCGGCTAAAA TGCAGAAATG NATGCTGTCA GCGTTGGTAT 120
TTCACATTCA ATGGAGCTGA ATGTTCAAGG CCTCTTCCCA TTGAAGCTAT AATTTATTG 180
GACCAAGGAA GCCCTGAAAT GAATTCAACA ATTAATATTC ATCGCACTTC TTCTGTGGAA 240
```

GGACTTTGTG AAGGAATTGG TGCTGGATTA GTGGATGTTG CTATCTGGGT TGGTACTTGT 300
 TCAGATTACC CAAAAGGAGA TGCTTCTACT GGATGGAATT CAGTTTCTCG CATCATTATT 360
 TGAAGAN 367

(2) INFORMATION FOR SEQ ID NO: 3134:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 366
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03703

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3134:

GATCAAGAAA TGCATTGACA TTCTAATTGA GAAAGAATAT TTGGAGCGAG TGGATGGTGA 60
 AAAGGACACC TACAGTTACT TGGCTTAACC CTTCTGGAAG GGTCTGACTG TGTGACCCGC 120
 AGCAAATAGT TCATGTTGGA AAGAATGAAA ACAACTCAAG TTCATAGCAG CCAGCCTGCC 180
 GCCATTGGAC CTCCCTTTTA AAAACTGAGA CCAAGACTCC CATCAGCTGG TCTCGGGTTT 240
 ACATCGGAAC TGCTCAGGAT TGATACATTT NAAGTCTGTA AATACGGACA CCAACGCCAT 300
 TTACCCTAAT TTNANGAACA GCGGGGNGCTG TCCNTCCGGT GCCGAGGGGC TTGCATTGCT 360
 TACCGN 366

(2) INFORMATION FOR SEQ ID NO: 3135:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 364
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03704

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3135:

GATCCCTGAT TAAGCTGATG ACTAGACCTA CAATTAATTT TCCTGCAGTA TATGAAGTAT 60
 TGTACCAGAG TATTAAGAAGA TATGTAATAT TTNATTGATA AATCTATCCT TTAAGAAGGAA 120
 TACGTTTTAG GATGTCATCA TTTTGATGTG AATCATGTAA ATGTTGATAA TATGCTGTTT 180
 ATTATACATT TAGTGTTTCA AGAGATTCAC TTAATTGCCT TTTTGCCAC GTATATTATG 240
 TAGTCTATTT GCAACTGTTT TTAAGAAANT GNCATTAAAG GACTAGTTTA TGTNGGGAAC 300
 CATTAGTGGN TGTTATTNGN CTCCCCCCT NTNTTTTGG GGTGTTAGCG CACCTGCTTT 360
 GCTN 364

(2) INFORMATION FOR SEQ ID NO: 3136:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 363
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03705

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3136:

GATCCTGACC AGCAAGCCCC CCCCAGCCC CCCTTCCAAG TGACTCCGTG NCTTGAGTGT 60

GTCTGCGTGT TTACACCCGT CCCTCTGCTG GCCGCCCCCG TGCGAGCGGC ACCCCTGCCC 120
 TGCCCTCCAC AGAATTGGGT TCCAAGGGCT GTTCCAGACA ACTGCCAACG TCACTGAGGG 180
 CCCTGCCCCA GCGGNCCTGG CCCCAGGCTC TATTAACCTA AAATGTAGCT CCCTAGCGNT 240
 AACCTAGGAA CCGGCGTTGN CTGCTTGGGG GGTACGCCC TCATGNCCTT GTTCCCAGGG 300
 CCGGGGGCCT TNAAGCGGTT NGAACAATTC NTTGGCTTTT TTTCANANTG TTTAATNGGA 360
 ATN 363

(2) INFORMATION FOR SEQ ID NO: 3137:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 359
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03707

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3137:

GATCTGGTGG TCAGCCCTAG GATAAAAAGC CAGGGCTGGA GAACAAGAAA GGGCCAGGAG 60
 ATGGAATTCC TTCAGGCCCG CACCCACACC CTAGGACATG TAAGCCCTCA TGTCCAAGGG 120
 AGCCTCATGC AGATAGTAGG AAATCAGGTC TGGAAATTTA AAANTAAAAG GCATGAGACT 180
 AAGGCTATCT GCTTCCNTTA TGCCCTGACT GGAGAGGGGA GGGTGGAGAG GCANGGCCCA 240
 CAGTGGGCAT CCCNGCTNGG TCTTNGGATG NCTGCNGTGN GGTGAATTCC CGGGAACTNG 300
 TTTTGGCACA ANGNTNNTTT TTGGCACTTT GTTTTTTTTG GTATTTAAAG GTTTTGCTN 359

(2) INFORMATION FOR SEQ ID NO: 3138:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 358
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03708

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3138:

GATCAGGGGA TAGTGAAGTT TACCAACTGG GTGATGTCAG TCAAAAGACA ACATGGCACA 60
 GAATATCAGT ATTCCGGCCA GGCCTCAGAG ACGTGGCATA TCAATATGTG AAAAAGGGGT 120
 CTCGAATTTA TTTGGAAGGG AAAATAGACT ATGGTGAATA CATGGATAAA AATAATGTGA 180
 GGCGACAAGC AACAACAATC ATAGCTGATA ATATTATATT TCTGAGTGAC CAGACGNAAG 240
 AGAAGGAGTA GAAAGGATGA TTCTTCTTTG GCCATCATTT GGTACAGTCT CATTTCCAAG 300
 TCATGTATAA TCTTTATGGC TTCCAGGGAC ANGGNTTTAA AATACTCTTT TACGTAAA 358

(2) INFORMATION FOR SEQ ID NO: 3139:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 356
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03709

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3139:


```

GATCTCAGTC TCTCTGTCTC TCTTTCTCTC CTTTTCCTTT TGGTGTATCA AATATTTNAT 60
TGACAAAGTA AGGGCCTTGA TTAGGACCAA ATTCTCGTGT GTTGCTATGG TCTTTATTTA 120
GGACAACAA TAACAATGCA GTGGCCCATT CTTGTCACTC TACACATATG ACTATACGGG 180
ACATATGTAA TATATAAATA TATATATAAA NCATTCCCCT CTGTCCCCTT GGCTTCGGAT 240
GGAGGCCTTT CTGTTGAGCT GAAATGCACC TGCAGCTGGG TGCTGCCAGC AGCTTGCAGG 300
CCCCAGCCCT GTTCCANTCA ATGCAGTTGN CAATAANTGG NATGAGTATC GTCAAA 356

```

(2) INFORMATION FOR SEQ ID NO: 3140:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 354
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03710

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3140:

```

GATCTTCAGC ATGTGCGGCC TCATGCTTAA GCTGAAGTGG TGTGCTTGGG TCGCTGTCTA 60
CTGCTCCTTC ATCAGCTTTG CCAACTCTCG GAGCTCGGAG GACACGAAGC AAATAATGAG 120
TAGCTTCATG CTGTCCATCT CTGCCGTGGT GATGTCCTAT CTGCAGAATC CTCAGCCCAT 180
GACGCCCCCA TGGTGATACC AGCCTAGAAG GGTACATTT TGGACCCTGT CTATCCACTA 240
GGCCTGGGCT TTGGCTGCTA AACCTGCTGC CTTGAGCTGC CATCCTGGAC TTCCCTGAAT 300
NAGGCCGTCT CGGTGCCCCC AGCTGGGATA GAGGGAACCT GGGCCCTTTT NCTN 354

```

(2) INFORMATION FOR SEQ ID NO: 3141:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 352
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03711

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3141:

```

GATCTTGATG AGGGCCAAC TCCCTCTTC CACAAGGGAT TAATCTTAGA ACTATAGCCA 60
ATTTATTATA AGTACTATTT AGCTACTCTG TGCTCCACAC ATCACGGAGT AATATCTTCA 120
AACTATGAGG TTTAGTAACA CTTGACTGCT GAGGTTTATT TCCTCAGCTC TGATGCTTCC 180
TGGGTGAAGA TGTAAGTNAT TAAATTAAC CAAATTTTAA AGCTAACACT TCATTCCATC 240
TAGACCAGGT AGCTCGTCAT TTGTACGTCT GATAGGTGCT TCAACATCTC AGAATTGGCT 300
TTATTTTTC TGCATTGCAT ATTGTACTCN TTTGTAATAT TGGGNATGTA AN 352

```

(2) INFORMATION FOR SEQ ID NO: 3142:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 349
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03712

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3142:

```

GATCTGACCA CTGTTCTCCA GCAGGCCTCT GCTGCAGCTT TTNCTCTCAG TGTTCTGGCC 60
CTCTCCTCTC TTGAAAGTTC TCTGCTTACT TTGGTTTTCCT CTCTGCTTGT AAAACATTGA 120
GTCCCCTCCC TGCCTTGGTT AATTGACTCA CACCAGCTGT GCGATGCCCCG CTTTTACAAT 180
TAAAGGAAAA CTGTTTTGTT CAGTGTCAACC TTGTCAGCAA CACTGTGTCC CTTCGCCCCA 240
CCGTTCTTCT CTGCTGCATT TGGACATGAG CCAAATTTGA ACCCAATCAA ATATAACGTG 300
TCTGACACTG ATTTTGTNTT TACTCAANTA AANGTATAGA CTACAGAAA 349

```

(2) INFORMATION FOR SEQ ID NO: 3143:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      348
(B) TYPE:        nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03713

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3143:

```

GATCTGTTCC AGCTGCAGGT GAACACCCTA CGACGTTATA AACGACACTA ACAAGTTGCA 60
GACCAGACCA GGCTTCAATA AGGCCCAGTT AGCAGAAACT GTGAGTCGAC ACTTCAGGAA 120
CATACCTGTG AATGAAAAAG AGACCCTTGC CTACTTCATC TACATGGTGA AGAGTAACAA 180
GAGTAGACTG GACCAGAAAT CGGAGGGNGG CAAGCAGCTT NAGTGAGGAT GAAGCACATC 240
TTAAAGGAAT GAAGTGATAA TGCTTGATGC ACAGGTNGAT ATCTACTACA TTTAAGCCCA 300
TAAAGACTGT TTAAATATTA TTGTAAATAA AAAAGTTTGT ATGATTGN 348

```

(2) INFORMATION FOR SEQ ID NO: 3144:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      348
(B) TYPE:        nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03714

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3144:

```

GATCCAGATG CAGAGGCCAG GATGTGGGCC CAGCCCTGTG CCAGGAGGCT NGCTGGAATA 60
AAGGGATGGG CAGGCTGGCA TGGGGGCAGC CGCTGCCCCCT GCCTNNNTGT TGCTGTGTAT 120
TCCTGCCGGC CAGGGGCCAC TGCCAGGACC ACGCCTCCCT TTTNATATCC CGATTCTTAA 180
GTTCTGCTAT TGTGGTATTC TGGTGGAGAA AAAAGAACCG CGTGGCTGTT TTTNAACTGC 240
CTGGAACCTA AGACCCTGAA TTCTTTTCCC CCCCAAGGGG AAAATCTATA TGGAAANCAT 300
TTATTTTAAA ATACAGGATG AAGTGAATTA AAAGATTTTA AATGCAAA 348

```

(2) INFORMATION FOR SEQ ID NO: 3145:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      379
(B) TYPE:        nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03715

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3145:

```

GATCACACCT GAGCTTATGC TAAAAGGTGG GATGACTCAG AGCTGGGGCT GGTCACCAGA 60
CAGACTGACC ATGTGATTAG AGGTTTGAGG CTTTGAGTCA GCCTGACCTA TGGGGCGGGG 120
GACTGGAGGC TGAGTTTAAT CATCTGGCCA GTGCTTTAAT CAGTACATCA TGAAACCCTA 180
ATAAAACTC TGGACACTAA AGCTCAGCAT AGCTTCCTGG GTGGTGAAGC TGTGGCTATG 240
CCGGCAGGGC AGTGTGCCCT AATTCCACGA AGAGGGGGCA TGGGAGCACT GTGCTCAAGA 300
CCCTTCCAGA CCTTTCCTG TGTCTTCCTT GGCTTGTTGA GCTGATTGTG ATCCTTTATA 360
ATAAACCTAA TCATAAGGN 379

```

(2) INFORMATION FOR SEQ ID NO: 3146:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 371
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03716

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3146:

```

GATCTGACCT GTGACAAGTC TGTACTATCC ACTATGTAAA TGGCTCACAA GTCAATTGCA 60
AACAACTGA ATGTACAAAT CTTAGTGCTG GTGCTGAAAT CTCTTCAGAA TAGTNATCAT 120
GATTTAAAAG TTTGTTTTAA AATTTGCAAG CATCAAGTGT CAATCAAAAC TGAAGATGAA 180
ACACTAATGA ATGTTGAATT CTCATGCTTT TAGGTGTACT TCCTTTTATAG AATTTTCAGT 240
TTTCTGCTAT TTTTACCGTA ACTATTCGT TTAANTTGG TTTCAATTAN GTTTCCTACA 300
TGCTAACTTC GTTTGTGCGN TTGANTAAAN TTGCCGGTAT ATATNTGGTG GCCTTGTTTG 360
TGACACTTTG N 371

```

(2) INFORMATION FOR SEQ ID NO: 3147:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 346
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03717

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3147:

```

GATCACAGGC AAACCCATCA AGCTGACTCA GGTGGAACAC GAAGCTGGCA NNTAAGTGGA 60
ACATGGATGG GCGGGAACC ACCCCAGCC CAGGGCTGCA GCCTNNCCCA CCTNACCTTC 120
CCGCTGGACT ATNACCTTAA CCAGCCTTTN ATCTTCGTAC TGAGGGACAC AGACACAGGG 180
GCCCTTCTTT TCATTGGCAA GATTCTGGAC CCCAGGGGCC CCTAATATCC CAGTTTAATA 240
TTCCAATACC CTAGAAGAAA ACCCGAGGGA CAGCAGATTC CACAGGACAC GAAGGCTTGC 300
CCCTGTAAGG TTTCAATGCA TACANTAAAA GAGCTTTATC CCTAAA 346

```

(2) INFORMATION FOR SEQ ID NO: 3148:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 344
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03718

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3148:

```
GATCTNCTGC CGAGTGAATG GGGAAAGTGNT CCAGAGCGGC AACACCAAAT AGATGGTATT 60
CAAGACAGAG GACCTGATAG CCTGGGTCTC CCAGTTNTN ACCTTTNACC CAGGGGATGT 120
NATCCTAACT GGGACCCCCC CAGGTGTCGG TGTATTCAGG AAACCTCCTG TTTTNTCAA 180
GAAGGGGGAT GAAGTCCAGT GTGAGATTGA NGAAGTAGGT GTNATCATCA ACAAGGTGGT 240
GTGATGGCTC CTGCACAGGC CCTGCACATA GGTGAGGGC ATCTGCTCCC ACTNAGCCTA 300
CCCCAGGGAA AGGCCANTG ACAGGNTGTG GACAGGTTGC CAGN 344
```

(2) INFORMATION FOR SEQ ID NO: 3149:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 341
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03719

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3149:

```
GATCTTTGAA GTCTATTTAA ATATTCATTC CATTACATCT AGACTCACCN AGAACTACAT 60
GTTATGATGT TAAGTTGAAG TTGAAACATG ATGTTTTCGA TTAAATTTAA GATATGCAAA 120
TTTATGTAGA GAAAATAAAT GTTATATACC CTATAATCTT TCACCTAATT AGTATTTAAT 180
TATATGGATT TGNNTTATAT TATAAAAGAT GTTTTGATTT TGTCTNNGA TATTGNCAAA 240
ATTGTTTGGA TATNCTTATG TTCTCAAGTC TGTATCTGCC TCCCCTGCCT TATNTCTNAT 300
GTTTGGCCAC AGTTAACCCA TTGTGCTTCT TTGTAATCAA N 341
```

(2) INFORMATION FOR SEQ ID NO: 3150:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 339
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03720

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3150:

```
GATCTNATCA GTCCTAAGCG GGTCATGGGG CAACACGGTT AGCGGGGAGA GCACGGGGTA 60
GCCGGAGAAG GGCCTCTGGA GCAGGTCTGG AGGGGCCATG GGGCAGTCCT GGGTGTGGGG 120
ACACAGTCGG GTTGACCCAG GGCTGTCTCC CTCCANAGCC TCCCTCCGGA CAATAAGTCC 180
CCCCTCTTGT NTCCACCCT NAGATTGGGC ATGGGGTGCG GTGTGGGGGG CATGTNCTGC 240
CTGTTGTNAT GGGTTTTTTT TGCGGGGGGG NTTGCTTTTT TNTGGGGTCT TTGAGCTCCA 300
AAAAATAAAC ACTTCCTTTN AGGGAGAGCA CACCTTAA 339
```

(2) INFORMATION FOR SEQ ID NO: 3151:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 337
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03721

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3151:

```
GATCCTCTCC CTGGGATAAG CACTCCCAGC CCCGTTTATC AGAAACACAG GCAAGGAAAT 60
TGGAAC TGCC ACCCAGCCCA GCATGATGGC TCAATTGGTT GGTTCGTTG TNAGTTGTCT 120
CTTNGTTTTG TTAAGNNTTT TAATAAGTA CGTTTTGCAT AATTGCCTTT AAATGGTTTG 180
TAATATTTGT AACGGTTTTA GCAGCCTATA ACTTTTCAGC TGGTGCTTTT ACTTAGGGNA 240
AAAAACAATT TGTAATACA GNACATTTGT TAAAAGGCAT AACNTAGAA CATAGCTTCC 300
TGTTTTGTGG ATTTGGTTTC CTNTATATTC AAAGTAN 337
```

(2) INFORMATION FOR SEQ ID NO: 3152:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 336
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03722

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3152:

```
GATCAGAGGC AGACAATGAC GAGTGAAGAT GGTTGTAAAG CCCTCTTCAT TCCTGGAGGA 60
GCCTGCATCT AATCTNTNAG GCCCTCTTTC TCTGTGGGTC TCATGAACAG CAGTGGGGAC 120
CATTGAGNAC TTGAATGGCC TGTTTGTNTA TGGGCTTGCA AAGGACAAGC AGAGTTCACA 180
GAGCTCAGGA TAGAAACATC AGAGCCTCCT CCACGGGCTT CAGTGNAACT CCGATGAACT 240
GTACCTGAGG GAATTTTTTT NTTAATCAAC CCCTTGTGTG GATGAATACA GGACCACAAA 300
ANTTNGTNTA CGTTTGAAAA AAAANAANNT NTNNNN 336
```

(2) INFORMATION FOR SEQ ID NO: 3153:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 334
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03723

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3153:

```
GATCTGCATT CCGACTGCCT ATNAACGGGT GTGGGGGCCG GGGGCTGGAN TTGCTGAAGT 60
NTTCAACTTG CACTCGGAGC TCCTTTNATA CCTCAAAGCT GGCTGTNAGG TGGCAGCTCA 120
CACCCAGACT CACTGGCCAC ACCTCAGCAG GGGGGGAGTC GAGTGTCACT NTCTTTCTGT 180
GAAGGCTTTT TTTTTCCTTT GGCCTGGGAA TTTTTCCTAT TTTAATGAAG GGGTTTTAAA 240
TTGTTTCATT TTGTGTGCTG TGCTTCAAAG CCTTAACTGT CAAATCTTGC ATTATCTNGT 300
TTGTACAGAA ATATACTGGC CTAGCAGNGG CAAA 334
```

(2) INFORMATION FOR SEQ ID NO: 3154:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 330
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03724

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3154:

```
GATCAAAATT TGTGTACTTG CAGGGCTTTC TTTCTTTTNN TTCAAATTTA CAAGGGTTCA 60
TTTTGGAAAC TACATTTTAA ACTTTGGAAT CAAATTGTTT CTTATTTGGG AGGATAATGT 120
ATATACATTG GTATTATGTT AAATAATAAA ATTGTNCTAA TTTGGTGCCA TTTCTTGAAT 180
CACAACGTGA TTTTGTGATC TCANGCTATT TTCATATGTN ATGTGTCAAT GTATCATCTC 240
TCAGAAAGGT TTTACANTCC AACATTATA TGTNCTCTGT GTAAGTGAAT TTNACTTATC 300
TNTTNTAAAC CAGNAACATT AATTGAGAAA 330
```

(2) INFORMATION FOR SEQ ID NO: 3155:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 330
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03725

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3155:

```
GATCTTCGCA AGCCAGCTTC TTCTGCATCT NAGGGGCTGC TGGCGCCCAN AGGAGGCAGA 60
CAGATGTCTN NTAGCTGAGT TTCTAACCGC ATGATGAGAC TCAGACCTTC CGCTGCACTA 120
GAAAATCTGC AACAGTGTCC CTGAGTCACT TCTCCTTAGT GGGCAGACTC GTGTTAGATT 180
TGTGGAACCC AGCTCTCTGA TTTACTCCTT TTGGAAAACC CATGGAATTT CATGTATAAG 240
GCTTTCATTT GTATTTNAAG GTTTTTCTGT TTGTTTTGAG TATATACATG GTGCTCAATA 300
GCAACATCTT AGCAGATGAA GCAGTTTATN 330
```

(2) INFORMATION FOR SEQ ID NO: 3156:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 329
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03726

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3156:

```
GATCTACTGC AAATCCTGCT ACGGAAAGAA GTATGGGCCA AAAGGCTACG GTTATNGCCA 60
GGGCGCTGNC ACGCTTAACA TGGACCGTGG CGAGAGGCTG GGCATCAAAC CAGAGAGTGT 120
TCAGCCTNNA CAGGCCTACA ACAAATCCAA AACTTCTAA ATTTNCTCAG AAATATGGAG 180
GTGCNGNGAA GTGTTCCAGG NGTGGGGATT CTGTATATNC TGCCGAGANG ATAATTGGAG 240
CTGGAAAGCC CTGGCACAAA ANCTGTTTCC GATGTGCAAA GTGTGGGAAG AGTCTTGANT 300
CAACANCTCT GACTGNAAAN AGAAGGTGN 329
```

(2) INFORMATION FOR SEQ ID NO: 3157:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 329
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03727

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3157:

```

GATCGGGCGC ACGGNCCGCT TTGGCAAGAG GGGCCTGGCA GTGAACATNN TGGACAGCAA 60
GCACAGCATG ANCATCCTGA ACAGAATCCA GGAGCATTTT AATAAGAAGA TAGAAAAGATT 120
GGACACAGAT GATTTGGACG AGATTGAGAA ANTAGCCAAC TGAGAAGCTC CACCAGCCAC 180
TGATGCCAGC CCTGGCACTG CCCCTGCACA GGAGACAAAGT GCGTTCAGGG CACAGGCCCC 240
GACATCACCC CAAGGNCAAC GGCACAAGTA GAGAGANACT ACCTACCTCA NTTCANATTA 300
TGTTTGGCCT TGACAAAATT GTATGCAAN 329

```

(2) INFORMATION FOR SEQ ID NO: 3158:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      327
(B) TYPE:        nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03728

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3158:

```

GATCAAATTT ACTNGAACAA TTGTTAATTT ATCCATTGTG CTTAGCTTTG TGACACAGCC 60
AAAAGTTACC TATTTAATCT TTTCAATAAA AATTGTTNTT TGAAATCCAG AAATNATTTA 120
AAAAGAGGTC AGGTTTTTAA CTATTTATTG AAGTATGTGG ATGTACAGTA TTTCAATAGA 180
TATGAATATG AATAAATGGT ATGCCTTAAG ATTCTTTGAA TATGTATTTA CTTTAAAGAC 240
TGGAAAAAGC TCTTCCTGTC TTTTAGTAAA NCATCCATAT TTCATAACCT TATGTAAAAT 300
ATGTNGTNCC TGTTTCCAAT AGGTGAN 327

```

(2) INFORMATION FOR SEQ ID NO: 3159:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      324
(B) TYPE:        nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03729

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3159:

```

GATCTGAATT TGGACCATT CACTAAAGAG AACATGAGTT TGCTCAGCCC TTTCCCTCACA 60
AGAGGGAGGG CCCCAGTTCC CCAGACTTCT CCACGCGCTG GCTCCATAAA GGCCAGCTTT 120
GGCCAGGCTG CCACAGGGGC CTNAGGAGCT CACTCTGGGC CTACCTGGTT TCAGTTAGAG 180
GGTCCCTCTG TTATTTTTC ATTTAAAAAG TATGTCCTCA GAAAACGTGA NTGGAAGGAT 240
GGGTGGCAGG AACTTGTATA GTTCAGCTTC CAACACTTTG GAACAGATTA AAAAGGGAAT 300
CTTTTAAATA AAAACGTATA NAAA 324

```

(2) INFORMATION FOR SEQ ID NO: 3160:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      322
(B) TYPE:        nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03730

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3160:

```

GATCTTG GTT TTAATTA ACT TATTACTCTA TTAATATAAC CTTGGAATTC TATTCTAATN 60
ATGTTGTTCT GGCTGCTTGT AGTATCAGTT CGCCCCTCTT GTTAGGGGAGA TATGTAACAA 120
TCTGTCATTT AATTGAGCAG TCTTTTTCAC ATAACAGTAA TAGCAAAAAT CCTACCTACT 180
CAGAATCATC TNCTTAGGTT GTCTCCTAAA TCTGAACAAT ACAGTTGTTT TATAAANTNN 240
CATTTNGTCT CTTGAGATTN AATCAATTAG AACTCTTTAG GGAGAAAATA AATANTAGAN 300
GAAANTATAT GCCTCANATT GN 322

```

(2) INFORMATION FOR SEQ ID NO: 3161:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      320
(B) TYPE:         nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03731

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3161:

```

GATCTGACTT TTTTCCTTCT CAAAAGAATC ATACTTGGA TTACAGGTAC ATTTNATGTT 60
ATATNATGGA TAAGTGAAAA NTTTTTAAAG GAGATTTTAT ACCTTTTCAC ATTAAAAAAG 120
GTATTTATAT TATNACTTTG TAGTGATTGT CTTAAGAAAA AATATAGCCC AAATGTATAG 180
TAAATCAGC AGCTCAAGAA GAATTTCTGC TTCTNNTTGT AGTTGATGCT TTGTTTTTNC 240
CTGCAGTCAG AAATTCCTTG TATTTGTCAA ATGTATAATC AGCTTGTATT GTTTTTAAAT 300
TAAANAAAAA TTTGANTAAA 320

```

(2) INFORMATION FOR SEQ ID NO: 3162:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      320
(B) TYPE:         nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03732

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3162:

```

GATCTGAAAA NAAACCTTAA TACGCTCATA TGGTTGGAGT GTTAAGTGAA CCTNTGATTT 60
TTTNAGGGTT TTINTACGTG TAGGCGTGAA TAGGGGGCAC CCCTTCAAAA CTGTACAAAG 120
AAGACGACTG TTTTCCATTT CCATTTAAAC ATTTT TAGCC ACTTCATTTT TATTTATTGA 180
ACAGGTCAAA TTTGTNTTGT TATTTGTGAG TACAGTACAT TTAAAAACA TCCTTATCGG 240
TTATTTTTTT TTCAGTCGGA GTTTGACGTA TAAATNGTTT ATGCTTTTGG TGAATCTCT 300
TAATAAACTG GTTCTTCAAA 320

```

(2) INFORMATION FOR SEQ ID NO: 3163:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      180
(B) TYPE:         nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03733

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3163:

GATCAGCTAG CTTGATTCTT GTGTACTTTT TTNAACTGT GGGTTTTTCCT AGTAAATTTA 60
 ATTTACAGAA ATNAATGGTA GCATTTAGTA ATCTACAAAG GAAATATCAA AGTNTTTTNN 120
 AAGCCTGTNA TATTCAGTGT GTGCCACAGG ATTGAAATAA ATGACAATGT AATTATGAAA 180

(2) INFORMATION FOR SEQ ID NO: 3164:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 303
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03734

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3164:

GATCAGAAAT CCGATTTGAC GGGCAACCAA TCAATGAAAC AGACACACCT GCACAGTTGG 60
 AAATGGAGGA TGAAGATACA ATTGATGTGT TCCAACAGCA GACGGGAGGT GTCTACTGAA 120
 AAGGGAACCT GCTTCTTTAC TCCAGAACTC TGTTCTTTAA AGACCAAGAT TACATTCTCA 180
 ATTAGAAAAC TGCAATTTGG TTCCACCACA TCCTGACTAC TACCGTATAG TTTTCTCTAT 240
 TCTTTCATTT CCCCTTCCC CATTCCTTTA TTGTACATAA AGTAACTGGT ATATGTGCAC 300
 AAA 303

(2) INFORMATION FOR SEQ ID NO: 3165:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 311
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03736

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3165:

GATCTAGAGC CAGGCTGGTC AAGACAAGAA TTGGCTGGAA TAGGCTGCTC TTCCCCCATT 60
 CCATCATGTG CTGTCCCCAC CCCTTTGGCC ACCTGGGCTG ACTGTGTCTT AATACCTCAA 120
 GTGCAAGTAT ATAGGAGTAA GAAATNAACA ATGCCTGCCT CTTTATACTC ATGCCTACAT 180
 TGTATGACAT CTAGTATGAA AGGGAAACAT TAAAGGAAAA CCCTTGTTTT GCTCTAAAAC 240
 CTGAGGACGG TAAACACTGA GAGTAACCTG GTGCTTGGTT TGAAGTAAAA CACAAATACT 300
 TCCCTTTTAA A 311

(2) INFORMATION FOR SEQ ID NO: 3166:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 309
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03737

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3166:

GATCAAGGGC AATGCCAATG AACATCGGCA TGGATTATAA TTATGCCCTC CTGGAACCTCA 60

```

AAAAGCCCCA CAAGAGAAAA TTTATGAAGA TTGGGGTGAG CCCTCCTGCT AAGCAGCTGC 120
CAGGGGGCAG AATTCACCTC TCTGGTTATN ACAATNCCN NCCAGGCAAT TTGGTGTATC 180
GCTTCTGTGA CGTCAAAGAC GAGACCTATG ACTTGCTCTA CCAGCAATGC GATGCCCCAGC 240
CAGGGGCCAG CGGGTCTGGG GTCTATGTGA GGATGTGGAA GAGACAGCAG CAGAAGTGGG 300
AGCGAAAAAN                                     309

```

(2) INFORMATION FOR SEQ ID NO: 3167:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      309
(B) TYPE:        nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03738

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3167:

```

GATCTTGATA TGTTTAAACA TTATCATGGC AGGGAAATAT ATAAAGAAGA AAAATATTTT 60
NACATTAAAC CTTTTCTAAA ANTTGTAAAT AGAAAAATAA TTTGGTTTTT NATCAAGANC 120
AACACTTATC GTTATGTATT GTGTTAGTTA TATTGCCAGT CTGTTGCGAC TGA CTCAAAA 180
AGTTAAATGT TGCCACTGCT GANGATGATT ATGNGCATCG CANACTTTGT TTCTGNCCCA 240
TTTTGGCAGT TTTNATATAC TCCNTTAAGA TGTTGAATGT TACAGGTTAN TAAAGTTAAT 300
ACCTTTTAA                                     309

```

(2) INFORMATION FOR SEQ ID NO: 3168:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      306
(B) TYPE:        nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03739

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3168:

```

GATCCTTTAC AGAAAAAGTT TTCTGACCTC AATTCTAAAG TAATTGTAGT AGGGAGCTGG 60
AGGACTTTCT TTCCCTTTAT GGTAATTTTT TGAGCTACAA AAGAGCCTTG CAGAAATGGG 120
TGAAGGGATT AANCTTTTAA AAATAAATGC TATATATTAG GAAAATAAAA AATATTTTAG 180
AGCCAAGTTA ACAAGTACTT CAGCAAAACA TGCTAGTTTT ATGCAGGGGA TTCTGTATTC 240
CAAATGGATA CANTCCGACA TATATAAAG AATCAGATTC TTA ACTATTG ACTCTTATTT 300
NGCAAN                                         306

```

(2) INFORMATION FOR SEQ ID NO: 3169:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      306
(B) TYPE:        nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03740

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3169:

```

GATCATACCC AGAATTCAAT GTTTGATATT TTAAGAATGT ATGTTCTAGT GTTTTTNAGA 60

```

GTGAGTCTAC CATCTGTATA AAAACACCTT GGGGGCAGGC AGGGGCATTT AAAAAATGTAG 120
 GACCTATCGT CCAGACTCAC AGAGTGGGGC TCCAGAATCT CCATTTTAA CAAACTCTCT 180
 TAAGTAATTC TGATGTGTAC CAAAATCAGT GCCATTGGTG TGTGTGTACG TAACTATATA 240
 CATATGTGTG TGTGTGTATA TATATAATGT GTCATAACCG TAAACAATAA ACAATATCAA 300
 GNTAAA 306

(2) INFORMATION FOR SEQ ID NO: 3170:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 306
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03741

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3170:

GATCTGTCAT GTTTAAACCC CCTACTTCTA AGGGAACCTC TCTAATCTCT TATCCTCATC 60
 CCCAAATAGT GTTTTCTTCC TCTGGGTTCT TATAATNTTG GTATCAATCT CACAGCATTT 120
 AGTGCTTCCT GCCTGGTGTG ACAGTTACCT GTGTGCATGT GCAATTTCTA ATTTCCACG 180
 CTAGACTGTG AGCTTCCTAA GGCAAGAATC ATGCCTTGTT GGTTTCTGTA TTCCTCATGG 240
 TGCCAAACAC AGTGCCTTCT ACATTGCAGG CGCTGAATAA ACATTTTAA AGCAAAAAA 300
 TTNAAA 306

(2) INFORMATION FOR SEQ ID NO: 3171:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 305
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03742

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3171:

GATCTCCAGT GGTCAAAAGA CATTACCTT TAATATCAGA CAACATTTAT ATTTTAGTGA 60
 AGAAACAAGT TCTCGGGTGG GGAATCTATG TTTCACTCAG ATTTATATGT TTGGAGGAAA 120
 AAAGCCTTTT TTTGTAAAAT ATTTAAATTT ATATANGAAA ATGTTAGAAA AAAATATGGG 180
 GGAGTGTATT ATAAANCCTG CTTTATTTGC CATGGGGCCN GGGGGAGGCC NGGCCTAATA 240
 CTCCTAAAGT ANGTTTNGG GNCCNTNTTT TCTTCCAATC CACCTGGTGC TGTTCNTGT 300
 AANGN 305

(2) INFORMATION FOR SEQ ID NO: 3172:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 303
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03743

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3172:

GATCTCCGGG AGGGACAGAT GGCCAATNTC TCCCCTTCCA AAGCAGGCC TGCTCCCCG 60

```

GCAGCCTCCC GCCGAGGGGC CCAGCCCCCA ACCCACAGGC AGGGAGGGGC ATCCCTCCCT 120
GCGGACCTCA GGGAGCGAAC GTGGATGAAA ACCACAGGGA TTCCGGACGC CAGACCCCAT 180
TTNATACTTC ACTTTTCTCT ACAGTGTGTG TTTGTTGTTG TTGGTTTTNA TTTTNNATAC 240
TTTGGCCATA CCACAGAGCT AGATTGCCCA GGTCTGGGCT GAATAAAACA AGGNTTTTCT 300
AAA
303

```

(2) INFORMATION FOR SEQ ID NO: 3173:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 306
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03744

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3173:

```

GATCACTTTT GAGCTCTGAA GCTTTGAATC ATTCACTGGT GGAGATGGCC TTCTGGTAAC 60
TGAATATTAC CTTCTGTAGG AAAAGGTGGA AAATAAGCAT CTAGAAGGTT GTTGTGAATG 120
ACTCTGTGCT GGCAAAAATG CTTGAAACCT CTATATTTCT TTCGTTTATA AGAGGTAAAG 180
GTCAAAATTT TCAACAAAAG TCTTTTAATA ACAAAGCAT GCAGTTCTCT GTGAAATCTC 240
AAATATTGTT GTAATAGTCT GTTTCATCT TAAAANGAAT CAGTAAAAGC AAACAAGGGG 300
TTTAAA
306

```

(2) INFORMATION FOR SEQ ID NO: 3174:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 301
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03745

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3174:

```

GATCAGCAAA CACGATAGAG GAGACCAGTC AGTACTTCTT GGAGGGGGCN GGAGGAGAGA 60
GGAAAAGGGA GGGCGAGAAT NACCACACAA CACAGCCNTT NGACCATGAG CAGAAGCGTC 120
CGTGGGAAC CCCTGGGGT NGATGGGCTG CCTGCACAGC CCCTGGAGAG GGGGCCAGGC 180
ACACCTCAG AGGAGCTGCA ACCCGTGGCC TGGCCTGCTA CATGCCCTGC TTCCACGTGG 240
NTGCCACGGT GACACANCCA CATTNACCA TCCCNCCGG GTCCTGGGA CGNAGNCACG 300
N
301

```

(2) INFORMATION FOR SEQ ID NO: 3175:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 299
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03746

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3175:

```

GATCAAAGTT GTCATGAATA CTGACTTGGG CGTGGGACCC ATCCGAGATG TGCTGCACCA 60

```

CATCTACAGT GCGCTGTATG TGGAGCTGGT GGTGAAGAAT CCCCTGTGCC CGCTGGGCCA 120
 AACTGTGCAA AGTGAGCTCT TTCGCTCCCG ACTGGACTCC TATGTTGCTT TTCTGCCNN 180
 NTTCTCCGCC CGGGCTGGCT GAAGCAACCT ACCTCAAGTN TCAGGAGAAT TCATGTCTNC 240
 CTGGGGCCCT TCCGAACCTT GTGCCAACTA AGGGCCCCCA NTGTAAGCCC CCGTACCTN 299

(2) INFORMATION FOR SEQ ID NO: 3176:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 298
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03747

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3176:

GATCTGAATT ACTACAGAAA AATAATTATG TTGCTTGCTT AATNATTCCC AGGAAACTTC 60
 GTTGTAGGCA TATATTTTAT AAGAGTATTA TACAGTGTTA ACTATGCAAG TAAGTTCTAA 120
 AATNACACAA TNATCTGTGT AATGTTTTAG TCCAATNACT GTGATTTATT CAACTCTGTT 180
 CTAAAGTTAT CTGGAATTGT CATGCTGCCT CAATTTACAG AAATCTATAA TAGATTTCTA 240
 TAGAAATGTA TAAAGACGTA GCAGTCATTT TGTGTTTCT AAATAGATAA CATATAAA 298

(2) INFORMATION FOR SEQ ID NO: 3177:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 297
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03748

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3177:

GATCAGAGTA TGGGTTCTCC ATGTAGCAAT ACTTCAGTGA GATTAAGTAT AAACAGTTTT 60
 TGGCAAAAAA CAACACAGTC TACTCTTTCT GCTTACAAAG ACAAGCCTT ACAAACTCAC 120
 TATGAAGGTA AAGGGAGGAC AGCTTGCTTC TTTGCCAGA CATTACAAA GTTGTTTTTA 180
 AANCACACTC ATAAGTAAGT TTGGCAAGTT GTTTAAAAA TGTCTCTTTG TTTGTACAG 240
 TTCTGTTAGA TGTGTGNATA TTTTAANAGT TTAATTANA ANNTTNATT TNGTCCN 297

(2) INFORMATION FOR SEQ ID NO: 3178:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 297
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03749

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3178:

GATCTNATTA CCTTCACGGA AGGAAGCGGA CGCTCACCAC GCTATGCCCT CTGGTTCTNT 60
 GTGGGGGAGT CATGGCCCCA NNACCAGCCG TGGACCAAGA GGCTCGTNAT GGTCAAGGTT 120
 GTGCCACGT GCCTCAGGGC CTTGGTAGAA ATNGCCCGG TAGGGGGTGC CTCCTCCCTN 180
 GAGAATACTG TNGACCTGCA CATTCCAAC AGNCACCCAC TCTCNCTTNA CCTCCGACCA 240

GTACAAGNCC TACCTGCAGG ACTTGGTGGG GGNATGGAT TTCCAGGGNC CTGGGTN 297

(2) INFORMATION FOR SEQ ID NO: 3179:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 295
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03750

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3179:

```
GATCATCACA TTTCTGTAAT TGAGGCCATG TTCAGGTGCT AAGGAAGTAT GCCTTTNACA 60
CAGAAGATTG AGAAAATTTT CTAGATATAA ATACAGATAA ATCAGACGTT ACAGTGGTGA 120
CGTAGTAACC ATCATGGCAA TGGAAAGNAG TCCAATTCAT AGCCTAAAC TTCAAATGTA 180
TTCTTAGGAG TCAGATTTTA CTGAATATTT TACCCACAAT AGCTGCCTAT TTTGTTATAA 240
TAAATATAT ATAANTNTAT NTCTNNNCCT TCCTTTAANC TGTAANA NNNAN 295
```

(2) INFORMATION FOR SEQ ID NO: 3180:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 295
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03751

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3180:

```
GATCCCAGCA CTACTTTTTTA TTACTGGAGA AATGGGGGGG ATAGAAAATT CTACTTTGAA 60
TTATTTAGTT TTTTTTAAAG AGTGGGTTGT GTTTGTNCTT CTCCACCTT TCAGCATTTA 120
TAGAACATGC TGCCCCACAT ACAAAGTCAA GACCACTTAC TTTTATGTGA CACTAGTAGT 180
TTGGGGTTAA TGTTTTGTGT AAGANCAGCT GCATATGAGT AAAGTTACCC CAACCACAGT 240
GAGGAGGAAG ATGTTACAT ACTGGAAGT TCCTGCCAAA TAAATTTTGC CCCTN 295
```

(2) INFORMATION FOR SEQ ID NO: 3181:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 294
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03752

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3181:

```
GATCAGTTAA TGCCTAAGAG TGAAAGTAGT TCTATTGACA TTCCTCAAGA TATTTAATAT 60
CAACTGCATT ATGTATTATG TCTGCTTTAA TCATTTAAAA ACGGCAAAGA ATTATATAGA 120
CTATGAGGTA CCTTGCTGTG TAGGAGGATG AANGGGGAGT TGATAGTCTC ATAAACTAA 180
TTTGGCTTCA NGTTTCATGA ATCTGTAAGT AGAATTTNAT TTTCAACCCA ATAATGTTCT 240
ATATAGCCTT TGCTAAAGAG CAACTNATAN NTTANCCCTA TTCTNTCTGT GAAA 294
```

(2) INFORMATION FOR SEQ ID NO: 3182:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 293
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03753

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3182:

```
GATCCGTGCT GGAAACTCGC AGGGGGACTT TTACATTAGG CAAATCAACA ACGTCAGCGC 60
CATGCTGGTC CTCGCCCCGC CGGTGACGTG CCCCCGGGAG TACGTGCTGG ACCTGGAGAT 120
GGTCACCATG AATTCCTCA TNAGCTACCG GGCCAGCTCT GTACTGAGGC TCACCGTCTT 180
TGTAGGGGCC TACACCTTCT GAGGAGCAGG AGGGAGCCAC CCTCCNTGCA GCTACCCTAG 240
CTGAGGAGCC TGTGTGAGG GNCAGAATGA GAANGGCAAT AAAGGGNGAA AGN 293
```

(2) INFORMATION FOR SEQ ID NO: 3183:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 293
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03754

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3183:

```
GATCTGTGGA CTTTNTATTTT TTTAAGAGAC TTACTCAATT TNATGACTGT ACTACCTGAA 60
ACAAAGTGAG AAAGGACAGG TGTATTTTTC TAAGTNATCA AGATAAATCC TTAANAATTC 120
AGTCTAAATN AGCAACCAGG AAGGAAAAAT ATATTAAAAA CAACAAAAAA GTGGCACATG 180
TCCAGGCAGT GTGAGGATTT GCTGTATATA AGTTGCCTGC TTTGTATTNT TNAAATCTCT 240
GCATCACTCA TTGGAAGTGC TTCTNAAGAG AGCTGCTCTG TGTTTCAGTTG AAA 293
```

(2) INFORMATION FOR SEQ ID NO: 3184:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 395
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03755

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3184:

```
GATCAAGATG ACCAAGATGT ATAAAGGGTT CCAAGCCTTA GGGGATGCCG CTGACATCCG 60
GTTCGTNTAC ACCCCCGCCA TGGAGAGTGT CTGCGGATAC TTCCACAGGT CCCACANNCC 120
GCAGCGAGGA GTTTNTCATT GCTGGAAAC TGCAGGATGG ACTCTTGAC ATCACTACCT 180
GCAGTTTTNT GGCTCCCTGG AACAGCCTGA GCTTAGCTCA GCGCCGGGGC TTCACCAAGA 240
CCTACACTGT TGGCTGTGAG GAATGCACAG TGTTTCCCTG TTTATCCATT CCCTGCAAAC 300
TGCAGAGTGG CACTCATTGC TTGTGGACGG ACCAGCTCCT CCAAGGCTCT GAAAAGGGNT 360
TCCAGTCCCG TCAACTTGCC TGCCTGCCTN GGGGN 395
```

(2) INFORMATION FOR SEQ ID NO: 3185:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 290
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03756
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3185:

```
GATCAGCACT TNANTCGGAA AGTTGGAACC TCTGACAAGA CCAAGTACTA CCTTCAAGGT 60
AATCCGTGGC TTCCCAAAA GTTCCACATT TAACTTCCTC CAAGGAAGGG GATTAAAATT 120
TNAAACTAAC TCCCTTCAGT TGAAATCTCG GACCACTNNN NAAAACAAAA ACCATGGTCT 180
AATTNTTTNC TTTGTTATGA ATTTNTTGAC AGTGGATTGA GCGATACGTG TCAGANCTAN 240
GCATTTCACT GTAGGCAAAT TGTGTCTTAG TTATCANGTA AATGTACAAA 290
```

(2) INFORMATION FOR SEQ ID NO: 3186:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 288
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03757
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3186:

```
GATCCAGATG ACTGAATTTT AGATAGCATT TTTATGATTC CCAACTCATT GAAGGTCTTA 60
TTTATATAAT TTTTTC AAG CCAAGGAGAC CATTGGCCAT CCAGGAAATT TGGTACAGCT 120
GAAATATAGG CAGGATGTTT AACATCAGTT TACTTGCAGC TGGAAGCATT TGTTTTTGAA 180
GTTGTACATA GTAATAATAT GTCATTGTAC ATGTTGAAAG GTTTCTATGG TACTAAAAGT 240
TTGTTTTTATT TTATCAAACA TTAAGCTTTT TTAAGAAAAT AATTGGGN 288
```

(2) INFORMATION FOR SEQ ID NO: 3187:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 288
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03758
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3187:

```
GATCCCCAAA AAGTGAATAT CAATGGAGGA GCTGTTTCTN TGGGACATCC AATTGGAATG 60
TCTGGAGCCA GGATTNTTGG TCATTNNACT CATGCCTTGA AGCAAGGAGA ATACGGTCTT 120
GCCAGTATTT GCAATGGAGG AGGAGGTGCT TCTNCCATGC TAATTCAGAA GCTGTAGACA 180
ACCTCTGCTA TTTAAGGAGA CAACCCTATG TGACCAGAAG GCCTGCTGTA ATCAGTGTGA 240
CTACTGTGGG TCAGCTTATA TTCAGATAAG CTGGTTTCAT TTTTNATN 288
```

(2) INFORMATION FOR SEQ ID NO: 3188:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 285
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single

(D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03759
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3188:
 GATCAGCAGC TGTGGAAATA AAGCTTGTNA GCCCTCTGCT GGCCACAGTA NAGGAAAGTA 60
 GCACAAATAG GATACAGTTG TATGTAGTCA TTGGCAACAA TTGCATACAA TTTTACTACC 120
 AAGAGAAGGT ATAGTATGGA AAGTCCAAAT NACTTCCTTG ATTGGATGTT AACAGCTGAC 180
 TGGTGTGAGA CTTGAGGTTT CATCTAGTCC TTCAAACTA TATGGTTGCC TAGATTCTCT 240
 CTGGAACTG ACTTTGTCAA ATAAATAGCA GATTGTAGTG TCAAA 285

(2) INFORMATION FOR SEQ ID NO: 3189:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 284
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03760
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3189:
 GATCTCACCA TTATGACATC CATCCCCCTA GCTCACCACA TAGCACATAG AATGATATTT 60
 TTAATTTGTA AGAGGCCATC CAGGTACTAA GGNCCCCAAGG CATAACAGATT CACAAAATNA 120
 ACTAATCTTT TTGCCTCAGA ATACCAAAAC ANCAAAANTA TAAAGCTGTA TTTGGACANC 180
 TANAAAACAC CAACTATCT CATTGCAATT NGTATTGTAG CAGATGTTCA GCAACTATCC 240
 TAATCANTGT TATTGTGTTT CANTTTAACT GGGTTAAATG TTTN 284

(2) INFORMATION FOR SEQ ID NO: 3190:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 282
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03761
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3190:
 GATCTCGACT CCCCCCTGGC CACAGACCCC CAGGTCATTG TGTTCACGTG ACTCTGTGGG 60
 CAAGGATGGG TCCAGAAGAC CCCACTTCAG GCACTAAGAG GGGCTGGACC TNTGCGGCAG 120
 GAAGCCAAAG AGACTGGGCC TAGGCCAGGA GTTCCCAAAT NTGAGGGGCG AGAAACAAGA 180
 CAAGCTCCTC CCTTGAGAAT TCCCTGTGGA TTTTAAAAC AGATATTATT TTTNTNATTA 240
 TTGTGACAAA ATGTTGNTAA ATGGGATATT AAATAGAATA AA 282

(2) INFORMATION FOR SEQ ID NO: 3191:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 279
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03762

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3191:

```

GATCTGGAGA AGTAAGATGG CCAAATAAAA GCCTCTACCA ATCATCTCC CCACAGGAAC 60
ACCAAATTTA AGAACTATCT ACACAAAAAA GCACCTTCAT AAGAACCAA AATCAGAGAG 120
AACAAAGGATA AAGAAGTATC CAAATACAAA GAAAATGTTA TGCAAGTGAC CTTTAGAGAT 180
GTTTTAAAGA TGACAAAATA TTGATGANGA TGGGCCAACA AGTGTTACTG TTACCTCTAA 240
TAAAGTTTCA TCACTAGTTT CACCATGGTT AATTGGAAA 279

```

(2) INFORMATION FOR SEQ ID NO: 3192:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      277
(B) TYPE:        nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03763

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3192:

```

GATCTGCTCA AATGCACCAA CACTGCCAAG TGAATAAGGT AGAAAAGAAA AATAACAGGT 60
ATCGTCATCT GAAGGACAGA TGAATCTTTT TCTGCCCCCTT CTTACAATG GAATATAAGG 120
AACAAATTATG GGATGTCATC AGAATGGATG CCATAGGACC TACAGCTCCC TTTCTNTTTA 180
TTGTNATTAT ACTTTAAATA TGACATTGTC TTTNATGTGT ATGTTCTAT ATTTTCAATG 240
TATCTTTTTT CTTCACTAAA CCTGATATTC AAATAAA 277

```

(2) INFORMATION FOR SEQ ID NO: 3193:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      277
(B) TYPE:        nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03764

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3193:

```

GATCACAGGG AGCCTGTGTT TGTGGAGGT GTTCCAGAAT CTNCTACTGAC ACCACGCTTG 60
GCCCCCAGCA AACCN TTCAC AGGCTGCATA CGCCACTTTG TGATTGATGG ACACCCAGTG 120
AGCTTCAGTA AAGCAGCCCT GNTANGCGGC GCCGTANGCA TCAACTCCTG TCCAGCAGCC 180
TGACATGACA NAGCACAGCT GCCCAANTAC AAAGTTCTTT AGNGCAATGN AAGNAACACA 240
AAAGCCAGNC CAGGAGGCNC CAGTTNCTTA TTCCTTN 277

```

(2) INFORMATION FOR SEQ ID NO: 3194:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      272
(B) TYPE:        nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03765

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3194:

```
GATCACAGAA GCCACTGCAC TCCAGCCTGG GTGACAGAGT GAGACTCTGT CTCAAAAAAA 60
AATTAAATAA ATTATTATAA CCTTTCAGAA ATGCTGTGTG CATTNNATG TTCTTTTTTT 120
TAGCATTACT GTCACCTCTCC CTAATGAAAT GTACTTCAGA GAAGCAGTAT TTTGTTAAAT 180
AAATACATAA CCTCATTCTG ANTAATGTCC CTCATTTTGA CTATAACTGT GCTTGTTTC 240
AAANGCAAAN TTAANCAAAA ATCTCAGTCA AA 272
```

(2) INFORMATION FOR SEQ ID NO: 3195:

(i) SEQUENCE CHARACTERISTICS:

```
(A) LENGTH: 272
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear
```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03766

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3195:

```
GATCTCCTGC TGGTCAGTGG GGC GGCGGCA GCACTACCGT GGCCTGGTAC CAGGTGAGCC 60
CGCTGGCCGC CCGCCTGCTC TACCCCTACC TGGCCTGGCT GGCCTTCGCG ACCACACTCA 120
ACTACTGCGT ATGGCGGGAC AACCATGGCT GGCATGGGGG ACGGCGGCTG CCAGAGTGAG 180
TGCCCCGCCC ACCAGGGANT GNAGNTGNAC CAGNAGGTGC CATNANGTTT NTAATNTAGT 240
GGCCGTNANG TTTTAATGAC CANTGGGNCT GN 272
```

(2) INFORMATION FOR SEQ ID NO: 3196:

(i) SEQUENCE CHARACTERISTICS:

```
(A) LENGTH: 269
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear
```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03767

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3196:

```
GATCCCATCT NTTTTCCCTT CTTTCCTCCT GGTTCGGGTC AGTTCAGAGG ATTTAACAAT 60
CACAAGTGTC CTGCAAAAAT GCCTGAACAT TATTCTTAGG CCCTCGTGGA TTTTTTTTTT 120
CAGAAAACCTT AAACAAAAAA NGACTTACTA NGAAATATGT ACAGCTACCC CTGTTTTTCAG 180
GCACTATGTT TNGANCATT TTNGCCATTG ANGTTACACAC GTGGCATCAG CCCATGCAAG 240
ATAGGTTTCT GTATTNNTAT ATNANNNTN 269
```

(2) INFORMATION FOR SEQ ID NO: 3197:

(i) SEQUENCE CHARACTERISTICS:

```
(A) LENGTH: 269
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear
```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03768

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3197:

```
GATCCAGCGA GGGGTCCAGG CCCTCTGCAT CTCCTCAGGC TCCAACCCTG CTTCTCAGC 60
AATNAGCTCT CCTCCAGCTT TGGCTTTGGG AAGCCAGACT CCAGGGACTG AAAAGNAGCA 120
ACAAGGAGAG GGTCTGCTTG AGAAATGCCA GATGCTTGGT CCCCAGGAAC TAAGGCGACA 180
```

GAGTGCAGGG TGGGGGCAAG ACTGGGCTGT AGGGGAGCTG GACTACTTTA GTCTTCCTAA 240
 AGGACAAAAT AAACAGTATT TTATGCAAA 269

(2) INFORMATION FOR SEQ ID NO: 3198:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 267
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03769

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3198:

GATCCCCTGG AGCCAGGAG GNAGGTGTGT NAGCTCAATC CGGACTGTAN CGAGTTGGCT 60
 GACCACATCG GCTTTNAGNA GGCCTATCGG CGCTTCTACG GCCCGGTCTA GGGTGTGCGCT 120
 CTGCTGGCCT GGCCGGCAAC CCCAGTTCTG CTCCTNTCCA GGCACCCCTC TTTCTCTCTC 180
 CCCTTGCCCT TGCCCTGACC TCCAGCCCT ATGGATGTGG GGTCCCCATN ATCCAGCTG 240
 CTCCCAAATA AACTCCAGAA GAGGAAA 267

(2) INFORMATION FOR SEQ ID NO: 3199:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 266
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03770

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3199:

GATCTGAACC TGTCAATTTGA AGTACAGGTT AAAGACTGTG TCCACTTTGG GCATGAAGAG 60
 TGTGGAGACT TTTCTTCCCC ATTTTCCCTC CCTCCTTTTT CTTTCCATG TTACATGAGA 120
 GACATCAATN AGGTTCTCTT CTCTTTCTTA GAAATATCTG ATGTTATATA TACATGGTCA 180
 ATAAAATAAA ACTGGCCTGA CTTAAGATAA CCATTTTAAA AAATTGGGCT GTCATGTGGG 240
 AATAAAAGAA TTCTTTCTTT CTAAA 266

(2) INFORMATION FOR SEQ ID NO: 3200:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 265
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03771

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3200:

GATCTGACTT GGGGAAAGG TTATCAGAGC CTAGAGGGGC TTAAAAAGTA ATCATTTGAT 60
 GTACATACCA CACTCCTTGG CTTCTTTTCT CTTCCCTTAA CCCTTTCTGC TTTTCATTAA 120
 CCACATTCCT GCACAACTCA TTTCTGAAAA CCTACCATGT TTCTTTACAG AGCCATCCAA 180
 AAATTTTTTG TCCCTACATA GCAATTTTCT GTGGCACTGA GAAACCATGT ATGACCACAA 240
 TAAAAATCCA TTTTGTGAAA GGAAA 265

(2) INFORMATION FOR SEQ ID NO: 3201:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 262
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03772

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3201:

```
GATCTCAGCT CACTGCAACC TCTGCCTCCT GGGTTCAAGC GATTATCCTG CCTCAGCCTC 60
CTGAGTAGCT GGGATTACAG GCATGCGCCA CTATGCCAG ATAATNTTTT TGTATTTTTA 120
GTAGAGACAG GGTTTTACCA TGTGGCCAG GCTGGTCTGG AACTCCTAAC CTCAGGTTAT 180
CCACCCACCT TTGGGCCTNC CAAAGTGCTG GGATTATAGG CATGGANCCA CCGTGNCTGG 240
NCANAGATGT AAGTNTAAAT TN 262
```

(2) INFORMATION FOR SEQ ID NO: 3202:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 260
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03773

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3202:

```
GATCCACCTG CCTCGGCCTC CCAAAGTGCT GGGATTACAG GCGTGAGCAC CATGCCCANC 60
CACCTTTTCT ATNTTTAGAT ACATAAACAC TCACCACTGT GTCACAGTCA CCTACAGTAT 120
TCAGTACAGT AGCATATGCT GTACAGGCTT GTAGCCTAGG AGCAATAGGC TATACCATAT 180
AGCCTAGGTG TGTACACCAT CTAGGTTTTT CTAACCTACAC TCTATGGNGT TCACACAATA 240
AAATTGCCCA NCGACGCAA 260
```

(2) INFORMATION FOR SEQ ID NO: 3203:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 225
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03774

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3203:

```
GATCCCAGCT TATGGCCTTG ACCCAGCCGT CCTCACAGAT GCCGGGTGAC CCTCTAGCTC 60
TCTCTGCATC TCCACCCCC CGACACCCTG GGACCCTCGA CCCCACCCTT CTTTCCTACC 120
AGCCCAGAGC CTTGTGGCTT GTACAGTTTT GAAACTCCCG TTCTATTTTA TGATGGTTGA 180
TAATAGTCAG TAACNNAATA AAGGAACGTT TGTAAAAATA TCAA 225
```

(2) INFORMATION FOR SEQ ID NO: 3204:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 216
- (B) TYPE: nucleic acid

(C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03775
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3204:
 GATCTGCCCCG CGGCGNACCC GTGTTATGTT TTGTGCTGTG TCCACGCGCT AAGACGACCC 60
 CCTCCCCCGT ACTGACTTCT CCTATAAGCG CTTCTCTTCG CATAGTCACG TAGCTCCCAC 120
 CCCACCCTCT TCCTGTGTCT CACGCAAGTT TTNNACTCTA ATATNNNNAT GGCTTTTTTTT 180
 CTTTCGGCAA AAAATAATAA AACGTTTCTT CTGAAA 216

(2) INFORMATION FOR SEQ ID NO: 3205:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 256
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03776
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3205:
 GATCTGACAC TTCCTTTCCA TTGCTTGGCC TGAACAGACT GACCTTGTA ACTTAAGCCT 60
 GGAGTCCATG CCTCGTCTTC CTTTGTGTTCA TTGCTGTAC CAAGAAAGCC AAGGAAGAGC 120
 AGCCTGACTC ATTCTTCTTG GCTGCAGCCT CTTCCCCACT TCCTGGGAGT GACCCAGCGT 180
 TATTCCTGCC TCCTCACTCC TATTCTCTTT GCCTTTGTGT AAAAATAAAA TGGAATAAAA 240
 CAAGTTGCAC AGTAAA 256

(2) INFORMATION FOR SEQ ID NO: 3206:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 256
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03777
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3206:
 GATCTCTTTT NATCATATAT GACATTAAGG CTACAGAAGT TTTGTGCAAN AATCTTAATT 60
 CATATTTATN AATTTCAAGG GAATATTGAA AGGTTTTAAA ATGGCATAA GATAATGGAA 120
 AATAAGCTTT ATGTTTCAAG AAGGGCAGAC TCACGAATTT TTTAGAAAAC AGTGCTTCTT 180
 AATGATATGC TATTATNCTT ATNAGTTATG TGCAAGCTTT GTATATNCTT ATATNTATAT 240
 NTAACNTAA CCCTCN 256

(2) INFORMATION FOR SEQ ID NO: 3207:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 253
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03778

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3207:

```

GATCCCAATT CGAGAGGTTC TAACCCCAAG ANCGGACATC TCGATTGCAC ACGTTCTGGT 60
TGCCCCGAGCC GACCTGTCTT GTCTCGTCCC AGCCACCAGC GTGGCTGTGC GNAGAGGGAC 120
CTGCTGTGCC ATCAACAAGG TGCTTATGGG NAACGTTCCA TACCGGGGGN GCCGCCCAA 180
TNAGCTGGAG CCTCCCATGC CCACCTGGAG NAGCNGAAGA GAGGATGGAG GCCCCAGTG 240
NNGGNNTCGC ANN 253

```

(2) INFORMATION FOR SEQ ID NO: 3208:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      252
(B) TYPE:         nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03779

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3208:

```

GATCATGNTT CATGTGCTAA AAATAAACTT GAAACACGGA AGTAGTGGTT GGTCCAGTTT 60
GAAAGCTCTT ATNAGTATTC TTCATCCTGG CTGTAATAAT AGCCATNATT TGTNATGCCT 120
TTGTTATGTA GCAGACACTC TTAAGNATTT NATGTGTATN ATCAAATTG CTATNACTGT 180
TCTTTTATA GTTGAGAATC TCAGGATACC TACATTTATC ACTTTTCAA TATATATGTA 240
TTTCTTATA AA 252

```

(2) INFORMATION FOR SEQ ID NO: 3209:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      251
(B) TYPE:         nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03780

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3209:

```

GATCAAGCTG TCCGAACCTA CCAAGAGCAC AAAGCAAGCA TGCATCCCGT GACTGCAATG 60
CTGGTGGGGA AAGACTTAAA AGTGGATTAA AGACCTGCGT ATTGATGATT TTAGAGATTT 120
CTCTTTTTTA AATGGAATTC GTAAAGAAAT ATAAACTTC AGCTCACAAT TAAACTGTC 180
TTTTTAGTTT TGGCTTTTTA TTGTTTGTGTT GGTGATTTTA CTGAAATAAA GTTGAGCTAC 240
TTCTTCTTAA A 251

```

(2) INFORMATION FOR SEQ ID NO: 3210:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      250
(B) TYPE:         nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03781

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3210:

```

GATCTTGTGT TCAGATGAAA GTGCAAGTTT TTATTAATTT GGATTGCCTG AACAGTGTAT 60
CCCATGATGA TGAAGGAAAA TGGAGAGATT TTTCTTTTTA ACTCTGNMNN NTCAGAGATG 120
AAGCCACGCC TTTCCATTTT TCAATGCTGC ATATTTAATC TGCAACAAAA ATGTTAAGCC 180
ATAACAGCCT TTTTATATTT TAGTTTGTCA CCTTTGCATT GCAGAATAAA TACTGGNTAA 240
CCATTTTAAA 250

```

(2) INFORMATION FOR SEQ ID NO: 3211:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 251
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03782

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3211:

```

GATCTTACTT GCTCCTGCTT ACGAAGATTN CCAATNACT GGTCATCTGA CCCTACTTGA 6Q
ACACTCCTGA ACAGTCATGT TTTTNAAAAT NTTCTTTTAT ATCAAGTCAG AGAGTATACT 120
TCTATAAATT TNACTCATGG ATGTTAGGAA ATCTAGTCAT CTTCCCTGTG ATTGCCCTGT 180
TAAGTATTTA ACCATAGCTA TCATGTGTTT CCAAATCTT CTCTAGATTA AATATCTTCA 240
GTTACTTCAA A 251

```

(2) INFORMATION FOR SEQ ID NO: 3212:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 250
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03783

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3212:

```

GATCTAGACT GAGAATCAGC CTGAGCTTTA CACAGCTGGG GTCTGTTACT CGCGTTTTGT 60
AGACTTTTGT GTAAC TATTT GTACCGTAGA CAGAATGTGA GGAGGAAGTA ACACACAGAG 120
GAGGATGTGT GTGTATGCAT GTGTTTGAAT TCACAAGGAA GAAATTATTT ATCTTGAGCT 180
TTTTCTTTG TTATTCAATT TCTATTGATT TATTAGTAAT AACAATGATA ATAAATGTA 240
AATGAGCAAA 250

```

(2) INFORMATION FOR SEQ ID NO: 3213:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 250
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03784

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3213:

```

GATCTAACGT GTTCCAGTGT CTGTCTGAGG TGTCTTAAAA AATCAGAACA AAACCTTCTAT 60
TATCCAGAGT CATGGGAGAG TACACNCTTT CCAGGAATAA TGTTTTGGGA AACACTGAAA 120
TNAAATCTTC CCAGTATTAT AAATTGTGTA TTTAAAAAAA AGAAACTTTT CTGAATGCCT 180

```


ACCTGGCGGT GTATACCAGG CAGTGTGCCA GTTTAAAAAG ATGAAAAAGA ATAAAAACTT 240
TTGAGGNAAA 250

(2) INFORMATION FOR SEQ ID NO: 3214:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 250
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03785

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3214:

GATCATAGGT CTGGACACTC CATCCTTGCC AAACCTCTAC CCAAAAGTGG CCTTAAGCAC 60
CGGAATGCCA ATNAACTAGA GACCCTCCAG CCCCCAAGGG GAGGATTTGG GCAGAACCTG 120
AGGTTTTTGGC ATCCACAATC CCTCCTACAG GGCCTGGCTC ACAAAAAGAG TGCAACAAAT 180
GCTTCTATTG CATAGCTACG GCATTGCTCA GTAAGTTGAG GTCAAAAATA AAGGAATCAT 240
ACATCTCAAA 250

(2) INFORMATION FOR SEQ ID NO: 3215:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 250
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03786

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3215:

GATCAAACTG CCATTACAG TGTAAGGCAG CACTTAAATT TCGAACCTAA AGTTTAGATG 60
CATTGTATAA AAAAACCTAA AAGCAGTATC TGTTNNTNNN GCTGTAAACC AAGTTGGAAG 120
CTATTCGGAT AATTTCTTAA ATATTGATGA NCTTTGGAGT ACTGTTTCTN CCTTCAAACT 180
GAATGTAATT AATNCATGAT TAAATGCACC TNATATGTTT AANCAATCTT TGTATACTTN 240
TGGGNTTTTN 250

(2) INFORMATION FOR SEQ ID NO: 3216:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 252
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03787

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3216:

GATCGCCACA CTGCCACTCT GCTGCCCAGC CACCAGGATT TCTGCCTGGA GCCCTTTGCC 60
CTGTCCCTGC TGCCTGAGGT GGCCTAGAGC AGAGGAGAAG AATTTGCTCC AGGCCAGGAG 120
CACAAATCGT TGTTCAATGA ATTTNTCTCC AACTCGACCT TGGTAAACGG AAATNTTGGG 180
GGTGAAGAGA AACAATCACT ATTTTNTNCT TTTTATCTG GTAAATAATT AAAAGAAAAA 240
CCGAACACTA AA 252

(2) INFORMATION FOR SEQ ID NO: 3217:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 336
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03788

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3217:

```
GATCTGTATT GGATAAGGAC CAATGNACAG CAAAGCAAAA ATGGCTTTAA AGCTTGGTGT 60
TACTTTTNTT AAGTTGTTTA ATTATAGTTA AGCAATTTCA AAAATGCTCC AAAGAAATGT 120
GAAAGGACCT TTTGTCACAG CACTTCAGAA AATACACAAC AGCCCCTTCT GCCCCGCAC 180
AGAAATGCTG CAGAGTATAT AAAACTTGAG ACATTTTGT AGGATGCCTG ACGAGGTGTN 240
GCCTTTTATC TTGTTTCCGG ATGCATATTT ATTACGAGTA CTCTGGTTAA ATATTGAAAA 300
GTTATATGCT GTAGTTTTTA GTATTTTGTC TTTGTN 336
```

(2) INFORMATION FOR SEQ ID NO: 3218:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 227
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03789

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3218:

```
GATCTCGAGT GTTATTTTCT GATTGTGGTG TTGAGAGTTG CACTCCCAGA AACCTTTTGA 60
GAGATGCATT TATAGCCCTA GGGGTGGTAT GACCCAAAGG TTCCTCTGTG ACAAGGTTGG 120
CCTTGGAAT AGTTGGCTGC CAATNTCCCT GCTCTTGTT CTCCTCTAGA TTGANGTTTG 180
TTTTCTGATG CTGTTCTTAC CAGNTTGGGA AAAAAGTGTG GATTAAA 227
```

(2) INFORMATION FOR SEQ ID NO: 3219:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 248
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03790

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3219:

```
GATCTGCATA GAAAATTTTN ATACAATTTT TTGAAAGTCC TTAGGTGAAA CATTTACCCA 60
TTAAAAAGGA AGCAGAAATA CTGAGACATG AAAGGCATTA TCAACTAACT CTAGACTCTA 120
GAACCCATTC TNGCATATCT CACGTGCAAT TTTTAAAAAT AAGTTAATAA TTCANCTCAT 180
ATCAACAAAA GCCTTTGNNA CATGGGTTTN CACTNGATAT CACCTAGTGC TNANGNTAGA 240
NGCCAANN 248
```

(2) INFORMATION FOR SEQ ID NO: 3220:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 245

(B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03791
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3220:

```
GATCCAGTGC TCTCCCATCT AACAACTAAA CAGGAGCCAT TTCAAGGCGG GAGATATTTT 60
AAACACCCAA AATNTTGGGT CTNATTTNNA AACTTTTAAA CTCCTACTG ATGATTCTNA 120
CGCTAGGCGA ATTTTCCAA ACACATAGTG TGTGTNTTTT GTATACACTG TATGACCCCA 180
CCCCAAATCT TTGTATTGTC CACATTCTCC AACATAAAG CACAGNGTGG ATTTAATTAN 240
GCAAA 245
```

(2) INFORMATION FOR SEQ ID NO: 3221:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 244
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03792
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3221:

```
GATCCACCCG CGTTGGCCTC CCAACGTGCT GGGATTATAG GCGTGAGCAC CACGCCCCGC 60
CTAAATCCA TATTCAAAGA AGCAATTTCA GTTCCTTTCT AAGCTTTGTC AGTCAAGGGG 120
CTCCACTGAC TTCCTAGGCC CTGTAATTTA ACCAGTCTTT AAGGTTTTC AGGAAAGTCC 180
CTTCTTCCAA GTGGTTTTTC CAAATCGCAC AATGGCAAAG CCAAACAGAG GAAGAAACAT 240
TAAA 244
```

(2) INFORMATION FOR SEQ ID NO: 3222:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 244
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03793
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3222:

```
GATCAGATTG CTGAAACACT ATGGGAACAG GTATTGAAGC CCCTGGGTGA TAATNTAATG 60
GAGGAAAACA TAAGGCAGTC TGTAACAAAC TCTATCAAAG CAGGCCTGAC TGACCAGGTG 120
TCTCATCATG CCAGATTAAA GACAGACTGA CAGTTCATCT CCTCACGGAC TCCACTCTCT 180
TTTTTTTNA TGCTTGCTGT ACAATGAGAA CTCAAATAAA ANTAAACCA AGTTTACAAT 240
CAAA 244
```

(2) INFORMATION FOR SEQ ID NO: 3223:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 246
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03794

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3223:

GATCCAGGAG GAGCAGCACC CGAGCCCTGG AGTGGCCCAG TACCCTTCCA AGAGGCCACA 60
 GTCCCAGCCA GGACAAAGTA TGCGGCCCAT CCTGGTGCN CAGGTGGGAC AATGTGAACA 120
 TGGACTCGAA GACATGGCCC TTTCTCTGTA GTTGATTTT TAAATGTGCC ATTATTGTTT 180
 TTAAAAAANN CGGNAAAANG AAANGCANAC AAATAAAACA CCTTTAAGAG GCTTGAANGC 240
 GNCAAA 246

(2) INFORMATION FOR SEQ ID NO: 3224:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 243
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03795

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3224:

GATCATAACT CATGAATATG TTTGTAATCA TGGTAATTTA GATTTTNATG AGGAATGAGT 60
 ATCTGGAAAT ATTGTAGCAA TACTTGGTTT AAAATTTTGG ACCTGAGACA CTGTGGCTGT 120
 CTAATGTAAT CCTTTAAAAA TTCTCTGCAT TGTCAGTAAA TGTAGTATAT TATTGTACAG 180
 CTACTCATAA TTTTAAAG TTTATGAAGT TATATTTATC AAATAAAAAC TTTCCNATAT 240
 AAA 243

(2) INFORMATION FOR SEQ ID NO: 3225:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 241
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03796

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3225:

GATCTGACCT TTTTTTTCCA GTTGAAATGT ATTAACACAC CTTCCACAAT NATTTTATAA 60
 GAGTCAGCAT AACATAGTGG ATAAGAACTG TGAGATGTTT AACCTCTCAG TAACTCGGTT 120
 CTCTCATTAT AAAATAGGAA TAAATCAGT ACCTGTTTCA TATGAAGGTC GTTTCTGAGA 180
 ATTAAATGGA CTAATGTATG CAAAAGCCT GGCAACAAT AAACACTCAT CTGACTTTAA 240
 A 241

(2) INFORMATION FOR SEQ ID NO: 3226:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 240
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03797

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3226:

```
GATCAAAATA TATTTGTCCA GAAACTCTTG GGCCAGTTCT CTGAGAAGGA ACTGGCTGCT 60
GAAAAGAAAC GCATCCTGCA CTGCCTGGGG CTTCGAGAAG AAATCCAGAA ATATTGCTGT 120
TCAAGGAAGT AAGAGGAGGA GGTGATGTAG CACTTCCAAG ATGGCACCAG CATTTGGTTC 180
TTCTCAAGAG TTGACCATTA TCTCTATTCT TAAATTTAA CATGTTGGGG AAACAAGAAA 240
```

(2) INFORMATION FOR SEQ ID NO: 3227:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 239
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03798

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3227:

```
GATCCTCCCA CCTNCAGCCT CCCAAGTAGC TGGGACTACA GGCACATGCT ACCATGCCCCA 60
GCTAATTTAA AAAAATTTTT TTTTGTAGA GACGGAGTTT CACTGTGTTG CTCAGGCTGG 120
TCTTGAATC CTGAGTTTCA GCAACCCTCC ACTTCAGCTT CCCAAAGTGC TGGGATTACA 180
GGCATCACTG GCCCAGGCAG AGCCAATTNT GTATAATAAA TCTGTNTCTC TCTGTCAA 239
```

(2) INFORMATION FOR SEQ ID NO: 3228:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 238
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03799

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3228:

```
GATCAAATTT NATTGAATGG TTTGAGTTG TAGCTCTATA AATAGTAGTT TTTAACATGC 60
CTGTAGTATT GCTAACTGCA AAAACATACT CTTTGTACAA GAGGTGCTTC TAAGANTTTN 120
ATTGACATTA ATGACACTGT ATACAATAAA NGTGTAGTTN CTNAATCGCA CTACCTATGC 180
AACACTGTGT ATNAGGTTTA TCATCCTCAT GTATTNTNNT GTGACCTGTA TGTNTATN 238
```

(2) INFORMATION FOR SEQ ID NO: 3229:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 237
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03800

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3229:

```
GATCCAAAGC CATCCCAGAC CTTCCCGGGC CCCTCTTCCT GGCAGATGAC TCTCCCCGCT 60
TCTGCGTCCT GCCTGCCCAT TCATACCACT TTGAACTGCA ACAGCCTAGC TCCTCACCTG 120
TGCACCTCCT TCCCCAGGTG TGCACGTCTC CAGCCCCGAG CGCGTGTCTT CCTGCTCATC 180
TGGGTTTCCT GGGCAAATAG TGGCCCTCAA TAAATNTTTG CTGAGTGAGA ACATAAA 237
```

(2) INFORMATION FOR SEQ ID NO: 3230:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 515
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03801

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3230:

```
GATCGCCAGA GCCCAGGAGT TTGAGGCTGC AGTGAGCTAT GAGGGTGCCT CTTTGCTCCA 60
TCCTAGGCAA CAGAGTGAGA CGCTGTTTAA AAAGGAAAAA ATCCTTCCNT AGAGCTAGTA 120
TCCTAAAGCT GCAGAGCTAG CCCATGACCT CATTGGTTTC NTTGTCCTTG GGGTGCTTTT 180
CCTGAATCTT TGGGGGTGAA GGGAGTNTTG CTCCAGTCC AGAGGCCTGA TTCTTTTCGG 240
ACTGGGTTCT CAAGACACGA CCAGGTTCTC AAGACACGAG TCCCCTTNTT CCTNCCCATT 300
AAAGGGGGTT TNTNAGAAGC AAGANCAGCC CCTTTCCCCA AGTCACAGCC TGAAGGGAGG 360
CCCCNGAGAN GCTTCCCTCC TTTCCCNCA CCCTGNTTCC TTAACCTTNT TTTGNCCCTG 420
NTTTTTTTAG GAANCTGGNA GTTTCAATTN GTTTTAAANG GGGGATTGGG GGGGAAGGGA 480
AGNCTTNGGG GGACAAAAA NNTTTTTNTT NCAAN 515
```

(2) INFORMATION FOR SEQ ID NO: 3231:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 227
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03802

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3231:

```
GATCAGTGTA TGCGAAAAGG TTTTATAGGAA GTATGGCAAA AATGTTGTAT TGGCTATGAT 60
GGTGACATGA TATAGTCAGC TGCCTTTTAA GAGGTCTTAT CTGTTTCAGTG TTAAGTGATT 120
TAAAAAATA ATAACCTGTT TTCTGACTAG TTAAAGATG GATTTGAAAA TGTTTTTGAA 180
TGCAATTAGG TTATGCTATT TGGACAATAA ACTCACCTTG ACCTAAA 227
```

(2) INFORMATION FOR SEQ ID NO: 3232:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 224
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03803

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3232:

```
GATCACTAGC TAATNCTCAT ATCCATGCCT TTTTGTCTTG TTTACAGTCT TAAAAGAGGT 60
AAAACAGCAA ATATTTTTTN AAGGGAAC TAACCTTAGG ATTCCTGAAA ANAATTTCAA 120
AAAAAAAATA AAGACACTGT TGCCAATGTG NCCCCAAACT TAAGACCATA CTAATGGCAT 180
ATATTTGTNA CAATNAAAAA TTAANTTTAC TACTTAATCC TAAA 224
```

(2) INFORMATION FOR SEQ ID NO: 3233:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 310
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03804

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3233:

```
GATCGGTGCT TTGTGTAAAT ACATCTTTAA CATTGCGGTG GAGAGGGGCC TTAAGAAGGA 60
CAGTTCATTG TAGGAAAGCA ATTCTGTACA TGAGTTTAAG CATTCTTGTT GCATTGTCTC 120
TGCAGATTCT ATTTTTGTTT ACAATATTAA AATGTATGTN AGCAAAATGG GTGGATTTTC 180
AAATAAAATG CAGCTTCCAC AAAAGTTTTG TNATGGTATT CTGGTCTGAG ATGCATTTNC 240
ATTTTNCCTN TCTCTTNTTA TTATCAATAT TGTNATTTTT CCCTAATAAA ATATACCCAG 300
GTGNATTAAA 310
```

(2) INFORMATION FOR SEQ ID NO: 3234:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 220
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03805

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3234:

```
GATCAAAATTT TTNAGACAAT CCTTGGTCTG GATTGGTTAA TGAAAATNTN TTGTTTAAGA 60
GGTTCATTA AAAAAATATTT CTAGTGTATT AGTCATAATT NTTTTTGTGG AGTGGGGGTA 120
AACCACACCA TTAAGGGAAT AAAATGTAAT TTGAAAGAGG TGATTATAAG ATTTGTTTCA 180
GGCCCCAAAA TATAAATAAA AATTGGTGTG GAATCTCAAA 220
```

(2) INFORMATION FOR SEQ ID NO: 3235:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 219
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03806

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3235:

```
GATCGATACA GAGCATCTGC ACTGGGATTG TCCGCCCGGC CTGTCAGGGA GGCCTCGGGG 60
GCTAATNGAG CTGAGGGTAT AGTCGGCCTT GGACCCTCGC TTTTTTCCTT TCCTGTACTA 120
TNAAGATAAC TGCCTTATCT CCCCTCAGG ACTGTTTTGG GGATTAAATA GGACGTTTAA 180
ATNACCAACG CTCTTTGAAA TAAACATTTC AAAATTAAA 219
```

(2) INFORMATION FOR SEQ ID NO: 3236:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 219
- (B) TYPE: nucleic acid

(C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03807
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3236:
 GATCAAAAAA ACTTTTCTTC TTTTGCAAAG AAAGCTTTT GTTTTAAACN GCAACGTACT 60
 TTTCCCCTAC CTTGAAGAGA CATGGTGGTC GCAGCTTCN ATCTATATGA AAAAGTTTTC 120
 GATGTATTGG AATNATTTGG GAATGCTTTT AAAACAATTT GTAATTATTT CTTTACAAAC 180
 CAAAACAGAA CAGAAAGGTG TGGTGCTGGA ACATCGAAA 219

(2) INFORMATION FOR SEQ ID NO: 3237:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 265
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03808
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3237:
 GATCTGCATT TTCAGAAGAG GACAATCAAT TGAAACTAAG TAGGGGTTTC TTCTTTTGGC 60
 AAGACTTGTA CTCTCTCACC TGGCCTGTTT CATTTATTTG TATTATCTGC CTGGTCCCTG 120
 AGGCGTCTGG GTCTCTCCTC TCCCTTGCAG GTTTGGGTTT GAAGCTGAGG AACTACAAAG 180
 TTGATGATTT CTTTTTTATC TTTATGCCTG CAATTTTACC TAGCTACCAC TAGGTGGATA 240
 GTAAATTTAT ACTTATGTTT CCAA 265

(2) INFORMATION FOR SEQ ID NO: 3238:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 217
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03809
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3238:
 GATCTACTAT AAGGTATTCT ATATTTATAT NACTTCAGAG ACGCGTATGT AATAAAGNAC 60
 GCCCTCCCTC CAGTGTCCAC ATCCAGTTCA CCCCAGAGGG TCGGGCAGGT TGACATATTT 120
 ATTTTGTCT ATTCTGTAGG CTTCCATGTC CAGAATCCTG CTTAAGGTTT TAGGGTACCT 180
 TCAGTACTTT TTGCAATAAA AGTATTTCT ATCCAAA 217

(2) INFORMATION FOR SEQ ID NO: 3239:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 217
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03810
 (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3239:

```
GATCGGTGCT ACCAAGGAAG AGAGCACACA GATAAGACAG AGGGGAGGAG GTGGGCATTT 60
CCTACATTCC TCCTTGTTT CCGCTGCTGA NATTGACAGTA TTTATTGCAA TNTAAATNTA 120
TCCTGAAGGT GGGGAGGAAT GTTTAANCTA CCATNTCCGT GTGTCATCTT GGTNTGTTTT 180
TNTCCCTGTT TGTAGCAAGA CTCTNATGAT AATNCTN 217
```

(2) INFORMATION FOR SEQ ID NO: 3240:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 217
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03811

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3240:

```
GATCTATATG AAGTGGGAAT ACAGCATATA TCTGGATATT CTTATAGTTA TCTTTTAAAC 60
ATCTTATTTT TTTCATTAAT TACATATCAA CATTAAATNTT GTATCTNGAA GCAAATNGAT 120
TTTGTATAAT TAAATGTGTC AAGCATCTGT ATTAATTGAT TNGATGGCAT AAGGTATGAA 180
ANTANTGTAC TGCCCCATGT ATNACTGTTC CAACCAN 217
```

(2) INFORMATION FOR SEQ ID NO: 3241:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 214
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03812

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3241:

```
GATCATAAGA CCAGGAGTTC AAGACCGGTC TGGCCAACAT GGTGAAGCCT CATTTNTACT 60
AAAAATACAA AATNAGCCAG GTGTGGCGTC ACATGCCTGT AATCCCAGCT ACTCAGGAAG 120
CTGAGGCAGG AGAATTGTTT GAACCTGGAA GGTGGAGGTT GCAGTGAGCC GAGATTGTGC 180
CACTGCACTT GACAGAGCGA GACTCTGTCT CAAA 214
```

(2) INFORMATION FOR SEQ ID NO: 3242:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 214
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03813

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3242:

```
GATCATCGAG GACGAGAAGA TGGTGGTGGT GGCGNTGCAG CCGACTGCAG AGCTNGAGGT 60
GGGCTCGGCG GAGGTCATTG TGGAGTCCCT GGCCAGGGN GGCCTGGCCT CCCAGCTCCC 120
CGGCCAGAGA CTGTGTGCAG AGNAGAGCTT CACCGGCCAG GTGTCCTGGA GCCCTCCCTC 180
ATNATNACAG CTGCTGTCCC CGAGGACTGT GATN 214
```

(2) INFORMATION FOR SEQ ID NO: 3243:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 212
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03814

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3243:

```
GATCTGGGGA GCTNTGACTG AAGGGGCTTG GTCTTCCACT CAGCATCAGC NTGGCAGTCA 60
CCACCCCACT NAGGACCTCG ATGTCCAGCT GCTGTCAGGT CTGATAGTCC TCTGCTAAAA 120
CAACACGATT TACATAAAAA ATCTTACACA TCTGCCACCG GAAATACCAT GCACAGAGTC 180
CTTAAAAAAT AGAGTGCAGT ATTTAAACCA AA 212
```

(2) INFORMATION FOR SEQ ID NO: 3244:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 211
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03815

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3244:

```
GATCTCTGTA GACTAGAGTC TTGCAGCAAC ACAGAATGTA ATATAAGGCA AATGCATCTG 60
GGACTTGACC AAAGTTGTTC TGTTTTGTTT TTTTAACTGA AAGTAACAGA AGGACCTTTC 120
TTAAATGTGA CAGATGGTCC TGCAGTGTGA ACCTGAAGGA CAGTGTATAA GCTGGGCTCT 180
AGTATATTGA TGATTCTGTC ATAAGTGTGG N 211
```

(2) INFORMATION FOR SEQ ID NO: 3245:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 210
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03816

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3245:

```
GATCTATTTT TGCACTGGAA TATCTGAGAA TTGCAAAACT AGACAAAAGT TTCACAACAG 60
ATTTCTAAGT TAAATCATTT TCATTAAAAG GAAAAAAGAA AAAAAATTTT GTATGTCAAT 120
AACTTTATAT GANGTATTAA NNTGCATATT TCTATGTNGT AATATANTGN GTCACAAANT 180
AANGCTGTGA CAGTNCTGTT GGTCTACAAA 210
```

(2) INFORMATION FOR SEQ ID NO: 3246:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 210
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single

(D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03817
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3246:
 GATCTTTTAC CACTAAAAGA GCATTATTCT CATGTCATAA TGAGAATAAT AATTTACATA 60
 CTTGGCATAA TAAATGCCTA AAAGACATTT TATTNTCTGA ATCTATTTTT TTCTTGCTAT 120
 AATGGGGATA TTGTAAATAA TGCATTTGTA TTAATGGTAT TTCTTAAAGC AATCTATGTA 180
 ACTGTAAATT AAACCAATCT ACAAACTAAA 210

(2) INFORMATION FOR SEQ ID NO: 3247:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 210
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03818
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3247:
 GATCAGAAGT GGCTAATTTA TTTNATTTCT NATTATTTTA TCCAGAGGGT ACTTTTTTTAA 60
 TGGATATTTG TAAATCTNCC ACTTAACCAC TGAAAATAAT NTTNTTTTAA TCCCACCCTT 120
 CCATCCATAC CTCTGCCTCC CCAAAAAGCT CCTATNAATT TNCTTATCCC CCTCATGTAG 180
 CTAGTTGAAT GTGAATAAAT AACATGGAAA 210

(2) INFORMATION FOR SEQ ID NO: 3248:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 206
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03819
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3248:
 GATCTCCATT CTTTGCCATG AGGGCCAACA CATGAGACCC CACCTCCCTC CCTGCCTGCC 60
 AGCCCTAGAC TTGTTGGAGC ATAGAGCCCT TCCTCCCCAG GCCTAAGTAT GTGGAGCTCT 120
 GCTTTGGCAC TGCCCCGCAG AGGCCACGCC TATTTATTCT GTTCTNTTG TTTTGTTTTT 180
 AACAACTATA CTTTGCACAC ATGAAA 206

(2) INFORMATION FOR SEQ ID NO: 3249:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 209
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03820
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3249:

GATCCCCAGA GTTGGTCCAA GGAGGGAGAG TGGGTTCTCA ATACGGTACC AAAGATATAA 60
 TCACCTAGGN TTACAAATAT TTTNAGGACT CACGTAACT CACATTTATA CAGCAGAAAT 120
 GCTATTTTGT ATGCTGTAA GTTTTCTAT CTGTGTACTT TTTTAAAGG GAAAGATTTT 180
 AATATTAANC CTGGTGCTTC TCACTCAA 209

(2) INFORMATION FOR SEQ ID NO: 3250:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 335
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03821

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3250:

GATCTGTGTG GTCCCCGACG TAACATCTGG CGAGACCCTG CCCTCTGCTG TTACCTGAGT 60
 CCTGGGGATG AACAGGTCAA CTGCTTCAAC ATCAATTATC TGAGGAACGT GGCTCTAGTG 120
 TCTGGAGACA CTGAGAACGC CAAGGGCCAG GGGGAGCNGG GCTCAACTGG AGGAACAAAT 180
 ATCAGCTCCA CCTCTGAGCC CAAGGAAGAN TGAGTCACCC CAGAGCCCTA GAGGGTCAGA 240
 TGGGGGGAAC CCACCCTGCC CCACCCATCT GANCACTCAT TACTACTAAAC AACTTTTTTG 300
 GNAANTNTNA TNTATGATGN GNNGNGNGTG GGGAN 335

(2) INFORMATION FOR SEQ ID NO: 3251:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 207
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03822

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3251:

GATCTAATTC TNCACCTCTG CTCCAAGGGC TGGGCTGTGG GTGGGATACT GGGATTTTGG 60
 GCCACTGGAT TTTCCCTAAA TTTGTCCCCC CTTTACTCTC CCTCTATTTT NCTCTCCTTA 120
 GACTCCCTCA GACCTGTAAC CAGCTTTGTG TCTTTTNNCC TNTNCTCTCT TTAAACCAT 180
 GCATTATAAC TTTGAAAGCA AAACAA 207

(2) INFORMATION FOR SEQ ID NO: 3252:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 201
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03823

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3252:

GATCTCATTT NAATGATTTA TAGGTAAATA CTAATCAGAC ATTATTAAAA GCAAAACAGG 60
 AAAAAGGTAA ACTTCTTAAA TTTAGTTACC TATAAAATT GTCAATNTTN ATTCTTTAAA 120
 AACACATGGA CTTACTATAA AAGCCTTTTT GTACTAGTGA AAAGAATCTT CAGCTATATA 180
 GAAATAAAGT TACTACTTAA A 201

(2) INFORMATION FOR SEQ ID NO: 3253:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 201
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03824

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3253:

```
GATCCCTAAA AGACAAAAGA GTCTTGGAAG GGAAGTCTGG CTCGCTCTG AACGTTTCGCC 60
CCATCACCAG TGTGAGTCCG TGGGGAAGTC TTCCTCAAGT GGGGTTTCAGT CTGTAATTTT 120
CCTGTCTGTT CTTAGCANNNG TTCTGAGTTA TTTTGGATTT TTTTCTTTAG CCAAATAAAG 180
GCAGTGTGGT TTTACCTGAA A 201
```

(2) INFORMATION FOR SEQ ID NO: 3254:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 200
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03825

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3254:

```
GATCCTAATG GTGCTGCCCT ATTTATACCT GGGTCTGCAT TAAAAGGGAA AGCCCCCCT 60
GTTGTAGATT TCATCTGCTT CCTCCTTAGG GNAGGCTGGG ATATGATGAG AGATTCCAGC 120
CCAAGCCCGG CCCCCACCG CCAGGCCATA GGGCATANTT TGCATCTCAA ATCTGAGGAA 180
TAAACTGATG ACCTGTGAAA 200
```

(2) INFORMATION FOR SEQ ID NO: 3255:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 391
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03826

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3255:

```
GATCAAGCAT TTGCGTTTGG ATGGCAATCG CATCTCAGAA ACCAGTCTTC CACCGGATAT 60
GTATGAATGT CTACGTGTTG CTAACGAAGT CACTCTTAAT TAATATCTGT ATCCTGGAAC 120
AATATTTTAT GGTTATGTTT TTCTGTGTGT CAGTTTTTCAT AGTATCCATA TTTTATTACT 180
GTTTATTACT TCCATGAATT TTAAAATCTG AGGGAAATGT TTTGTAAACA TTTATTTTTT 240
TTAAAGAAAA GATGAAAGGC AGGCCTATTT CATCACAAGA NCACACACAT ATACACGGTT 300
AGACATCAAA CTCAATGCTT TATTTGTNAA TTTAGTGGTT TTNTATTTCT ACTGTCAAAT 360
GATGTGCAAA ACCTTTTTNC CGGTTTCAT N 391
```

(2) INFORMATION FOR SEQ ID NO: 3256:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 194
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03827
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3256:
 GATCTTTAAT TTGNATGGTG ATGAATGTCT TAGTCATGAA GAGTTTCTAT GGGGTGTNAA 60
 AAAACAGAAT GCATCGAGGT TNATGGGTAC CACAACATCA GAGTATACAA GAATACTGGA 120
 AGTGTGTGAA GAAAGAAAGC ATTAAAGGAG TAAANGANGT CTGGAAACAN GCTGGAAANG 180
 GTCTTTTTNA ATNN 194

(2) INFORMATION FOR SEQ ID NO: 3257:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 190
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03828
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3257:
 GATCTAGTAG GTTCTATTT TTCCTTCTC TTTACAATGC ACATAATACT TTCCTGTATT 60
 TATATCATAA CGTGTATAGT GTAAAATNTG AATNACTTTT TTTGTGAATG AAAATCTAAA 120
 ATCTTTGTAA CTTTTTATAT CTGCTTTTGT TTCACCAAAG AAACCTAAAA TCCTTCTTTT 180
 ACTACACAAA 190

(2) INFORMATION FOR SEQ ID NO: 3258:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 190
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03829
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3258:
 GATCCCCTTT TNTNCTGGAG CTTCCGTGCC TCCCCTGCCT CTTCCAGCC CTTGTAATCC 60
 TCCTTCACAG GCCAGCCAGA TACCTGTNTG GCCTNTGGGC CCATTTTNTT CCCTGTCTGT 120
 CCCCACCCCA CAAGAACCAG GTTCTNTAA TAAATTCTCT CCCTTCTTTA GCCAGGACTT 180
 AGCCCGCAAA 190

(2) INFORMATION FOR SEQ ID NO: 3259:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 189
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03830

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3259:

GATCTNAGAG CCTGCCCAAC AGCAGGGAAG CCAAGCACCC ATTCATCCCC CTGCCCCCAT 60
 CTAAGTGCCT ANTGANAAGG GGAACAGTGC CATGTACCAC ACAGATGTTC CTGTCTCCTC 120
 GCATGGGCAT AGGGACCCAT CATTNATGAC TGATGAAACC ATGTAATAAA GCATCTCTGG 180
 GGAGGGAAA 189

(2) INFORMATION FOR SEQ ID NO: 3260:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 188
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03831

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3260:

GATCCCCTTC CTATCAATCA CCTGATAGCA ACAGGGACAG CTGCCAATAC CCTGCTCTTT 60
 ACTCAATGGT ACCCAGGGAG GGAGCATGGG AAGAGGGTGA GCTGAGGGCT GGAGGAGGGC 120
 AACAGCCACT GGGTGAGCTG TTCACGGTCT TATACTATTG TTTGTNATTA AAAGTGCTTC 180
 AACCCTAAA 188

(2) INFORMATION FOR SEQ ID NO: 3261:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 184
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03832

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3261:

GATCAACAAG GCCACGCCCT ACAACTACCC AGTGCCCGTC CGTGATGATG GGAACATGCC 60
 CGACGTGCCC AGCCACCCCC AGGACCCTCA GGGCCCCAGC CTGGAGTGGC TGAAGAAACT 120
 GTGAGCACCT CCACTGACAG AGGCGGCCCC TCCCACGGNT CCCAATAAAA ATGTGAAAAC 180
 CAAA 184

(2) INFORMATION FOR SEQ ID NO: 3262:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 184
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03833

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3262:

GATCCACCAA TGTTTCAAAT AGGACTATAA CTTATTCAAA GGCCAATNAT ACTTCGCATA 60
 ATTCAATTTT AATATTATTC ACATTTTCATG TCACAAATTT AGTAAGTTAC ATGTGTTATG 120
 TGATGTTTTG TTTTGATAGA TTATATCTTA CTCCTAAATA AAANGTCAAG ATTTTTGTAG 180

CAAA

184

(2) INFORMATION FOR SEQ ID NO: 3263:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 181
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03835

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3263:

```
GATCTCTCTG TGTGGAATGC CTTGGTGAGA GAGATGCTTA TAATNACTAT NATNATTTCT 60
AACCAAGCTT CTATNAAATNT AATTTCTAAT AATACACTAT CTTGATTGTA CTCTCCAGAA 120
AATTTTNCCTG TCAGTGAAAA TAAAAGAAAA ATTAAAGTAA AGCTAAGGAA CTGTCTATAA 180
A 181
```

(2) INFORMATION FOR SEQ ID NO: 3264:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 180
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03836

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3264:

```
GATCCCTGGA CCATCTGCAT CCAGAGGACC GTCCGTAACG GCCGGGGGTC CAGGCGGACC 60
TTGTGGTGAC CCGGCTCGGG CNTNTCCTCG GTTTCNTTGC CTCACCCGCG GAGAGCGCTG 120
AACCTGGACA AGCAGCGGCT GGNAAGNACA GGTCCAATAA ACGCCCTCTG CGCCAGAAA 180
```

(2) INFORMATION FOR SEQ ID NO: 3265:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 227
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03837

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3265:

```
GATCTAGTTC AGAAGGAAGC AAAATCCCTT AATCTATGTG CACCGTTGGG ACCAATGCCT 60
TAATTAAAGA ATTTAAAAAA GTTGTAATAG AGAATATTTT TGGCATTTCCT CTAATGTTGT 120
GTGTTTNTTT TTNGTGTGTN CTGGAGGGAG GGGATTTAAT TTNAATTTNA AAATGTTTAG 180
GAAATTTNTN CAAGGAANCT TTTTAATAAN GTATATNGAA AGNTAAA 227
```

(2) INFORMATION FOR SEQ ID NO: 3266:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 171
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single

(D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03838
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3266:
 GATCACTTCT CTTGGCTTC CTTCTTTTCT GTGCTTGCAT CAGTGTGGAC TCCTAGAACG 60
 TGCGACCTGC CTCAAGAAAA TGCAGTTTTC AAAAACAGAC TCAGCATTCA GCCTCCAATG 120
 AATAAGACAT CTTCCAAGCA TATAACAAT TGCTTTGGTT TCCTTTTGAA A 171

(2) INFORMATION FOR SEQ ID NO: 3267:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 338
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03839
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3267:
 GATCACTTTA TTTGCTAGGG AGGGAAGTCC TAGGGTGGTT TCAGTTTCTC CCAGACATAC 60
 CTAAATTTTA ACATCAATCC TTTTAAAGAA AATCTGTATT TCAAAGAATC TTTCTCTGCA 120
 GTAAATCTCG CAGGGGAATT TGCATTATTA CACTTGAAAG TTGTTATTGT TAACCTTTTC 180
 GGCAGCTTTT AATAGGAAAG TTAAACGTTT TAAACATGGT AGTACTGGAA ATTTTNCAAG 240
 ACTTTTACCT AGCACTTAAN TATGTATAAN TGTACATAAN GACAANCTAG TAAGCNTGGC 300
 CTGGGGANAT GGTCAGNCCT TGTNTTGTGT TTTTGGCN 338

(2) INFORMATION FOR SEQ ID NO: 3268:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 170
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03840
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3268:
 GATCATAGGA GAAAACCATT TCANATGACA AGAGCACCTC AAAGGCAGCA GCCTCAAGGA 60
 GCAGCCATGG CCCAGACTT GTCGCACGGA TGCAGAAAAC TTAATGGAGG AGGCTGAGGT 120
 CAGAATGGGA AGAGTTTTTA AAAAATAAAA AGGGGAGCTA ATATGTGAAA 170

(2) INFORMATION FOR SEQ ID NO: 3269:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 168
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03841
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3269:

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03838

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3266:

```
GATCACTTCT CCTTGGCTTC CTTCTTTTCT GTGCTTGCAT CAGTGTGGAC TCCTAGAACG 60
TGCGACCTGC CTCAAGAAAA TGCAGTTTTC AAAAACAGAC TCAGCATTCA GCCTCCAATG 120
AATAAGACAT CTTCCAAGCA TATAACAAT TGCTTTGGTT TCCTTTTGAA A 171
```

(2) INFORMATION FOR SEQ ID NO: 3267:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 338

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03839

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3267:

```
GATCACTTTA TTTGCTAGGG AGGGAAGTCC TAGGGTGGTT TCAGTTTCTC CCAGACATAC 60
CTAAATTTTA ACATCAATCC TTTTAAAGAA AATCTGTATT TCAAAGAATC TTTCTCTGCA 120
GTAAATCTCG CAGGGGAATT TGCATAATTA CACTTGAAAG TTGTTATTGT TAACCTTTTC 180
GGCAGCTTTT AATAGGAAAG TTAAACGTTT TAAACATGGT AGTACTGGAA ATTTTNCAAG 240
ACTTTTACCT AGCACTTAAN TATGTATAAN TGTACATAAN GACAANCTAG TAAGCNTGGC 300
CTGGGGANAT GGTCAAGNCCT TGTNTTGTGT TTTTGGCN 338
```

(2) INFORMATION FOR SEQ ID NO: 3268:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 170

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03840

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3268:

```
GATCATAGGA GAAAACCATT TCANATGACA AGAGCACCTC AAAGGCAGCA GCCTCAAGGA 60
GCAGCCATGG CCCAGACTT GTCGCACGGA TGCAGAAAAC TTAATGGAGG AGGCTGAGGT 120
CAGAATGGGA AGAGTTTTTA AAAAATAAAA AGGGGAGCTA ATATGTGAAA 170
```

(2) INFORMATION FOR SEQ ID NO: 3269:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 168

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03841

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3269:

GATCAAGGGC AAAAAGTGGT CATTAAGTNA TCTAANATTA AATNATTTAG CCACTAAGTA 60
 ATTTNTTTAC TCTNACTTTA AACTCACCAA AGAAGATTCT TTTAAAGAAA TTATGAAAAA 120
 TGTACAATTT AACATTTTAA ATAANTAGTG ACAGANGTTG TTTATAAA 168

(2) INFORMATION FOR SEQ ID NO: 3270:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 167
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03842

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3270:

GATCCTCCTG CCCAGCATT CCAAAGTGCT GGGATTACAG GTGTGAGCNA CTGCCTGGCC 60
 TGGCCGTAGG TTTGTAACTG TTTCATAGAA GAGCCCTGGA GAAGACAGTA GAATNAGCCT 120
 ATCTAGTTTA AAAAATAAAG AAGCACGTTG ATTTACCAC CGCCAAA 167

(2) INFORMATION FOR SEQ ID NO: 3271:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 167
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03843

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3271:

GATCAGCTTT GTTTTTCCCA GAGTTCATGC AAATAGAATC TGGCTTCTNT AAGTNAGCAT 60
 CATGGACTTG GTTNAAATTC GCCCGTNTTG CTGAGTGTAT CTTTAGCTTG TCCCTTTTAA 120
 CTGACGAGTA GTATTCCACA GTNTGGATGC ACTGTATTNN NTTTATN 167

(2) INFORMATION FOR SEQ ID NO: 3272:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 166
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03844

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3272:

GATCAGAGCA TTGTGCAATA CAGTTTCATT AACTCCTTCC CCCGCTCCCC CAAAAATTTG 60
 AATTTTTTTT TCAACACTCT TACACCTGTT ATGGAAAATG TCAACCTTTG TAAGAAAACC 120
 ANANTAAAN TTGAAAANTA AAAACNTAA ACATTTGCAC CAGAAA 166

(2) INFORMATION FOR SEQ ID NO: 3273:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 165
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single

(D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03845
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3273:
 GATCTNTTTT TTTCCCTTCT TGTATCATCC CTTTGGGTTT TTCGGTTTGC TTTGGTTTTT 60
 AATTTTNNCTT TGTTTTTNNCT ATAAATCCTG TTTTAATCTT ATAAGGGAAA ATNCATTTTN 120
 TTCAACTGTN CTAGTTAATA ATGAGAACTC AATTNCTGGA AATNN 165

(2) INFORMATION FOR SEQ ID NO: 3274:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 163
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03846
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3274:
 GATCTCAGGA ATNACATTTT CCAACAGACC AAAAAATGTT TTCATGTAGC AGCAATGCAG 60
 ATTTGGTGAA TATTTAATAT ATATTTAAGT ATGTATTTCA CTTTATNACT GACAATNAAA 120
 AAATATTGTT TGGCCAAATA GTAAACACCC TTTTGAAACC AAA 163

(2) INFORMATION FOR SEQ ID NO: 3275:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 163
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03847
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3275:
 GATCCCTTNG TTTGCTTAAT AAATTATAAA ATAATGGCTT GGAAAAGCAG GCTAGTCTAA 60
 CCATGGTGCT ATNATNAGGC TTGCTTGTTA CACACACAGG TCTAAGCCTA GTATGTCAAT 120
 AAAGCAAATA CTTACTGTTT TGTTTCTATT AATGATTCCC AAA 163

(2) INFORMATION FOR SEQ ID NO: 3276:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 164
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03848
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3276:
 GATCTGTTCT TGGTATTTNN TTTTGTGTTT TTTTGGTTTT TAAATGTAAT CACCCATTGG 60
 TCAGGCCACG GACTGGTCAC CATGAGCTCT GCTAGCCACG GCCCCAACGA TGCTTCCGGC 120
 TCTCATGGAT TCCACAGCAA ATAAACTGT GCTGACAACA GAAA 164

(2) INFORMATION FOR SEQ ID NO: 3277:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 162
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03849

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3277:

```
GATCTGGGGT CCCTAAGTCC CTCTCTTTAA AGAACTTCTG CGGGTCAGAC TCTGAAGCCG 60
AGTTGCTGTG GGCCTGCCCG GAAGCAGAGC GCCACACTCG CTGCTTAAGC TCCCCCAGCT 120
CTTTCAGAA AACATTAAAC TCAGAATTGT GTTTTCAGCA AA 162
```

(2) INFORMATION FOR SEQ ID NO: 3278:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 162
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03850

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3278:

```
GATCCTAGGA ACTCCTATNT TCAGAAAAGA ATTTTNTTCC TACTATATAA TTACAGTATT 60
TAGCTGTCAA TTTTAAGATG AATTGTTAG AGCCTTATAG TAAAGNATGT ATCTTGGTCA 120
CACACAAAGC TTGGAAAAAG TAAAGATGT CTAAACCATA AA 162
```

(2) INFORMATION FOR SEQ ID NO: 3279:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 160
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03851

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3279:

```
GATCAAGAAG TAGCCGAGGT TGATAAAAAC ATAGAACTTT TGAAAAAGAA GGATGAAGAA 60
CTCAGTTCTG CTCTGGAAAA AATGGAAAAT CAGTCTGAAA ACAATGATAT CGATGAAGTT 120
ATCATTCCCA CAGCTGCTCA ATAAAGTACA AGAGCTTAAA 160
```

(2) INFORMATION FOR SEQ ID NO: 3280:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 177
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03852

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3280:

GATCGTGGGT CAGGGACACC GAGAGAGTGA GGTCACCTCC ACTTCAAACC TTCAGTGAGG 60
 GGGTGGGATG GAGAGAATGC TGAATCTTTT TTTNACGGG ATGGGGTTTT CNTCTTTGTA 120
 ATTATNNCTT TAGTTTAATT AACCTTTTGG TTGTTGTNC AATATTATAT ATNNNAN 177

(2) INFORMATION FOR SEQ ID NO: 3281:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 232
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03853

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3281:

GATCAGGACT ATAATATTGT ACAGTTATTA TAGGGCTTTT GGGGAAGGGG AGGATAGCGA 60
 GAAGATGCTC TGGGGGTTTT GTTTTGCTT TTCCTTCAGG GTTTATTTT TGACTGTTTT 120
 GTTTCTNGT NGGCCATTTC TGTATTGCTG GCATCTGTGC TAAGCTTTAC AGTGGCAAAA 180
 ATAATGACAT GTAGCAAAGA TTTTCAAACA AAATATTTT NCCTTTTGTA AA 232

(2) INFORMATION FOR SEQ ID NO: 3282:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 158
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03854

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3282:

GATCGATGGT GCGCTTTCT CCTGTGCCA CCCGTCTTCA ATCTCTGTTC TGCTCCCAGA 60
 TGCCTTCTAG ATTCACTGTC TTTTGATTCT TGATTTCAA GCTTCAAAT CCTCCCTACT 120
 TCCAAGAAAA ATAATTAAAA AAAAACTTC ATTCTAAA 158

(2) INFORMATION FOR SEQ ID NO: 3283:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 158
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03855

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3283:

GATCTCATCA CAAGATGACC AAAAGAGTTT GAACTGTGTG TGCTATTTAG AAGATTTAAC 60
 TTTNATGTAT CTATAGATAC CACAGCTGTT GCTTCTAATA AATTACCTA CCTTTNAACT 120
 GAAAGTTTAA TAAAGCCAAA TCAATTTGAA ATACCAA 158

(2) INFORMATION FOR SEQ ID NO: 3284:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 390
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03856

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3284:

```
GATCTGCCTC ACGTGCCTG TGGTGGCCGT GTGCTACGGC TCCTTCTACA ATCTCCTCAC 60
CCGAACCTTC CACATCGAGG AGCCCCGCAC AGGTGGCCTG GCCAAGCGGC TGGCCAACCT 120
TATCCGGCGC GCCCGAGGTG TCCCCCACT CTNATTCTNG CCCTTTCCAG CAGCTGCAGC 180
TGCCGTTTCT NTCTGGGGAG GGGAGCCAA GGGCTGTTTC TGCCACTTGC TCTCCTCAGA 240
GTTGGCTTTT GAACCAAAGT GCCCTGGACC AGGTCAGGGC CTACAGCTGT GTTGTCCAGT 300
ACAGGAGCCA CGAGCCAAAT GTGGCATTG AATTGAATT AACTTTAGAA ATTCATTTGC 360
TCAACTTGTT AGTGGCCACC TCTTATATTN 390
```

(2) INFORMATION FOR SEQ ID NO: 3285:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 156
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03857

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3285:

```
GATCTCAACA CCTATGCCTC CACGTAAATT ATTTTTTTCA GCCTTATTTT CCTCAAAATT 60
GTAGAGTCCT AATCTTCTTC TATCTTGTGG TGTGAGACCT TGGATAAGTC TCCCTTCCAC 120
CTTTTCCTAT TACTTAAAAT GGTGAATTTG CATAAA 156
```

(2) INFORMATION FOR SEQ ID NO: 3286:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 155
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03859

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3286:

```
GATCAGGTGA TTTGTAAAAT TGTATTTATC TGTACATGTA TGGGCTTTTA ATTCCCACCA 60
AGAAAGAGAG AAATNATCTT TTTAGTTAAA ACCAAATTTT ACTGTTCAAA NTATCTTCCA 120
ACTTATTTAT TGGGTTGTCA CTCAATTGCC CTGTN 155
```

(2) INFORMATION FOR SEQ ID NO: 3287:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 137
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03860
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3287:
 GATCTTGCAA CTCCATTTTCG GAAGACACCG AGGAAGAGGA GGAAGATGAA GACCAGGACT 60
 ACAGCTTTCC TATATCTCCT ATTCTAGAGT GGTAAGTCT CTNTAAGTNT TCAGTGTTGA 120
 CATAGCCTTT GTGCAA 137

(2) INFORMATION FOR SEQ ID NO: 3288:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 152
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03861
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3288:
 GATCAGTGGG CACAGTTCTT CAGCTACATT GAGACCCTGA AATAACAAT NATATTCTNA 60
 CTCGACATCT TGTCCCAAT CCTTCAAAA ATATTGATGG TGATTGTGC TACCATTAC 120
 TCGTTTATTT AATAAGACA TTCAATCCCA AA 152

(2) INFORMATION FOR SEQ ID NO: 3289:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 152
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03862
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3289:
 GATCAGNATT GTACGTATTC AAGGTGTAAT ATNTGATAAT TTGTCGTACA CGTACATTGT 60
 GCAATAACAG TCACAATNAA TTCCTCAGCG CACCCATCAC CACGAATACG ATACATTAGA 120
 TATTCTGAAC TTGCTCATCT TAGGACTTCA AA 152

(2) INFORMATION FOR SEQ ID NO: 3290:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 153
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03863
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3290:
 GATCATAATA GTGACCAAAA TATACATGCA GACTTGTTTT TTATTATTGT TGTTTAAGCA 60
 TAATTTAAGA AAAAAAATTT TTACCTGGTG AACTTGCTAT CTGCTCTGTT TCTAGTTAAA 120
 ANATAATANA TTTTATCTNC CCTGTGCTGT AAA 153

(2) INFORMATION FOR SEQ ID NO: 3291:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 144
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03864

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3291:

```
GATCTTCTTT CTTTACAG GAACAATTGG CTCCTTTGCA TGCTTTTGGT TTGTNACCAA 60
AATATACAGT GTGGTGAAGG TTGACTGAAG AAGTCCAGTG TGTCCAGTTA AAACAGAAAT 120
AAATTAAACT CTTCAACAAC AAAA 144
```

(2) INFORMATION FOR SEQ ID NO: 3292:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 163
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03865

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3292:

```
GATCATGGTG AACTTACCAA AGCAAACAAT GCCTGTAAGA TGGTCCTGCA GCAGCCAACC 60
AGTGAACCTCT TTTGGTGACA TCCTGTTCTT GTTGTATAAC TTTATATTCC TATAAATCCA 120
TTAAGGCCCC AATAAAGTTT GTCTCTAAGC GCTGTGTTAG AAA 163
```

(2) INFORMATION FOR SEQ ID NO: 3293:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 149
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03866

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3293:

```
GATCCAAAAT TAGAGCTCAT CAGANTTGTC ATTGAAAGTG TTAACAAAAG TAATATCAAA 60
TGACATTTGA AAAATATCCT TGTAATGA CTATATTAAT AGGTATAAGG NTTTTCTTA 120
TTAATCTAAT AAAATNCCTT AATAGGAAA 149
```

(2) INFORMATION FOR SEQ ID NO: 3294:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 157
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03867

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3294:

```
GATCAGGACA CTTAGCAAAT GTAAAAATAA AATCTAACTC TCATTTGACA AGCAGAGAAA 60
GAAAAGTTAA ATACCAGATA AGCTTTTGAT TTTTGTATTG TTTGCATCCC CTTGCCCTCA 120
ATAANTAAAG TTCTTTTTTA GTTCCAAATT TNAGAAA 157
```

(2) INFORMATION FOR SEQ ID NO: 3295:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 148
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03868

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3295:

```
GATCCGNTAG GAGTAGTAAA TGNGAGACAC AATNGCTTGA TTATACCTCN TATNTGGTTT 60
AGCTTCAGTA TTAAACAAG GAAATAAACT TGAAAATTAT TTGTCATCAT AAAAATGAAA 120
CAAANTAAAA TATTTATTGC CAGGNAAA 148
```

(2) INFORMATION FOR SEQ ID NO: 3296:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 332
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03869

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3296:

```
GATCTCAGAG GCTCAGAGAC TGCAAGCTGC TTGCCCAAGT CACACAGCTA GTGAAGNNCA 60
GAGCAGTTTC ATCTGGTTGT NACTCTAAGC TCAGTGCTCT CTCCACTACC CCACACCAGC 120
CTTGGTGCCA CCAAAGTGC TCCCCAAAAG GAAGGAGAAT GGGATTTTNN TTTTGAGGCA 180
TGCACATCTG GAATTAAGGT CAAACTAATT CTCACATCCC TCTAAAAGTA AACCTACTGG 240
TTAGGAGCAG CAGTGTTCTC ACAGTGTTGGG GTCAGCCGTC CTNCTTNATN NNNGGCCAAT 300
GGNTATTGAC ACGTGTNCNN NGTTTGGGCA GN 332
```

(2) INFORMATION FOR SEQ ID NO: 3297:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 147
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03870

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3297:

```
GATCTNCTGT CCTCCTTTCA CTACATACCA ACAACCCTCT GGCATTAAAC TTCCAGTGAT 60
AGTGCTATNA ACTTTGTGTC CTCAGGTCAA CAAGGGACCT CAGTAATTNG TTCTNTACAT 120
AAGTATATAT ATGGGTATTA NTNNGTN 147
```

(2) INFORMATION FOR SEQ ID NO: 3298:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 355
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03871

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3298:

```
GATCGCCCTC TACATGGCTT CGCAGCCCAA AAACAAATNA GTTAGGCTGC AGAGGACTGG 60
TTTGTTTTTT GGCATAAACC CTTTGAAGTT CCTTTTTCAT TGTTAAATTA AAATTTTTTT 120
NTTNACTTGG ATGGCTTAAC ATTTTNNCAA GAAAANTNGG AAGNTATGAA GATGNTGTTT 180
TGGTTTGTTC ATGAAANGCA TATGGCTTGN CAGAGCTCAT TCGACAGTTA AGGCCATTGT 240
TTAAAGAANC GGTGCTTTGC TCTGTGTTTG TNCTCCTGAT TTCCCTGGAG GTTCTGGATG 300
AGGGCTGANC ACAGGCTTNG TTANTGTNCA GTCTGTGCTG GGGGNCCTCA GGGGN 355
```

(2) INFORMATION FOR SEQ ID NO: 3299:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 147
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03872

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3299:

```
GATCACCAGG GTCAGTTTNT TTAATAATGG TTTCCAACGT GCCTAATACA TTAAGTAAGA 60
NTGGNTGATA ACATGACCAG ACAGACATAA AGACCCTGTT GGGAATNACA TTGAACCTCTC 120
AAAGTCAAGA TTTNTTACAC AANTNTN 147
```

(2) INFORMATION FOR SEQ ID NO: 3300:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 147
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03873

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3300:

```
GATCCGCTAC TAAAAGTAAA AATAACCGGT TTGTAAACA TTAAGAGAAA AANTAGGATA 60
TTTAATACAT GTGGTGAGTG GAGANCAGGG TAACTTTAAN TNAAAGTTTA AGGCAAATTG 120
TAAGCNCCAC AAGANATATC ANATTTN 147
```

(2) INFORMATION FOR SEQ ID NO: 3301:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 147
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03874

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3301:

GATCTAAAAA AATTAAAAAG AAATATGAAT GAAAGNAAAA AAAATGCNAA AATNAGCAGT 60
 TTCCTGGAGG AGCAGTTCCA GCAGGGCAAG CTTNTTGCTT GCNTCGTTTC AAGGCCGGGA 120
 CANTTTGGCC GAGCAGATGG CTATNTN 147

(2) INFORMATION FOR SEQ ID NO: 3302:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 147
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03875

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3302:

GATCATNTTA TTTTACAATC ATTTATAATG AATNAATGTT NCAGTTAGCT TTAAAAGGTA 60
 TACGGTGCTA ATNAGTAAAA TATTGAAGGC AATATTTTAC TGCTAGCTTG CAAAGTTATG 120
 AGAGTTTAAA AAATAAAATA TATGAAA 147

(2) INFORMATION FOR SEQ ID NO: 3303:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 147
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03876

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3303:

GATCTAGGGT CCTGGGTNTC TTGCATTTAT ATGTCAGAAA AGGGGCGATA TGCTGCTGAG 60
 GGGTGAGTGC ATATAANTNT GGCCCTGAGG ACCAGGGCTG GCAGATNTTG TCTACCTGCT 120
 GAAGAATAAA ANATTTCTTT TGGTAAA 147

(2) INFORMATION FOR SEQ ID NO: 3304:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 150
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03877

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3304:

GATCTNACCC CCAGCATGAT TGTATTTCTT TCCCCTCCAG TCAAACCGTA ATACAGTTTC 60
 CAGAAAATTC GACAGTCTGC AATGCCAAAA GGGTAAAAAT CTGTATTTC AAGTTGTATA 120
 GAATAAAGGC TTTAGTTAAA ATATTTCAAA 150

(2) INFORMATION FOR SEQ ID NO: 3305:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 146
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03878

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3305:

```
GATCTAAAAA TAACTGTAAT TATTTAAATG ACTAANAGGA AAGTACATTT TTTAAATNC 60
TGAAAATTGC CTTNNTGTGT TTATNCAAAC TGAAAAGCTG AGACCAAGAG CAAGGAAGGT 120
AAAANGTTAA CAGGCAAACA TTTNCN 146
```

(2) INFORMATION FOR SEQ ID NO: 3306:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 143
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03879

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3306:

```
GATCCTCACC AACCTAAGCA AGAGGAAGTG CCCCTCTCAA CCTGTGCGGG NTGCTGCGTC 60
CCAGGACTGA GACGCAGGCC AGCCCCGCC CCTAGCCCTC AGGCCTTCTT TTTATCCAA 120
ATAAATATTT CTTAATAAGG AAA 143
```

(2) INFORMATION FOR SEQ ID NO: 3307:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 143
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03880

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3307:

```
GATCAACAAG AGCACTGTAC TCCTGGCAAT NATTACATAT GTNAGAACAT GGATTTTGCA 60
CTGTAGACAA CATTTAACAC CAGTCTATGG GGTACTGCAT TGCTTTTNAT AAAGTTCAAA 120
ATAAAGATTT ATTTTCAAAC AAA 143
```

(2) INFORMATION FOR SEQ ID NO: 3308:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 142
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03881

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3308:

```
GATCCCTTTA CTGGAGCCCA GTATGTGCTG TGTGAGTTAG AAGTCATTCT TGCTGAGAAG 60
GTGAATAGGT AGGGATTTCG CTTGTTTTGT AAGTCTACAA TTTGCCAAGA GTAAATAACA 120
CTGGACCAGC TGTAAGTA AA 142
```

(2) INFORMATION FOR SEQ ID NO: 3309:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 142
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03882

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3309:

```
GATCTGCACA TTTAATCGTG GCTGTTTCTG TATAGCCTAT ACTGCATTAG CCNAAGANAT 60
TGTGCTTTG TAACTTTTGG CACTATTGTT TTGGCTGGAT TTGTATTACA CACAGTTTGA 120
AAAAAACAA TTCCACACTA AA 142
```

(2) INFORMATION FOR SEQ ID NO: 3310:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 141
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03883

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3310:

```
GATCCCTAAG CCCCCAGCT GTAAATAGGC TGTGGCCAGT GCCTGGTCAT NAGAAGAGNG 60
AGGAGGAGCC CAGGCGTCTG TTTATGTATT TATTTATTGA TTTATTATAC CTATTAATAA 120
AAAAGGTGCT CAGCCTCCAA A 141
```

(2) INFORMATION FOR SEQ ID NO: 3311:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 139
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03884

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3311:

```
GATCTTGGCC TTCGAGTGC CCAGTGATGG CATTACTCTG CACTATAGCC ATTTNCCCCA 60
ACTTAAGTTT AGAAATNACA AGTTTCAGTA ATAGCTGAAC CTGTTCAAAA TGTTAATAAA 120
GGTTTCGTTG CATGGTAAA 139
```

(2) INFORMATION FOR SEQ ID NO: 3312:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 138

(B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03885
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3312:
 GATCTGGAAG ACAAGTAACA TCTTCCTTTT NTTGGTGCTC GCCTGCCGTG CTCTAGGTGC 60
 TTTTAGAGAT GCTGGTCTGT GTGCTAGGGA AGCGATGAAC CATACTGTTA GTCTATTAAA 120
 CATAACTCAA CCTGGAAA 138

(2) INFORMATION FOR SEQ ID NO: 3313:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 138
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03886
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3313:
 GATCTATCTC TGTGTCCAAG TCTCCTCTTT TTATAAGGAA ACCAGTCATA ATGGACCCAC 60
 CTGAATNACC TCATTTTAAC TTGATTACCT CTGTAAAAAA TGTATTTCCTA AATAAAGTGA 120
 CCTTATGAGG TATTGAAA 138

(2) INFORMATION FOR SEQ ID NO: 3314:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 136
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03887
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3314:
 GATCAACAAA TCTCCTAGGC CTNTNACCAC ATACATTAC ACCNACTACC NCAACTATCC 60
 ATAAATCTAA GTATAGCCAT TCCACTATNA GCTGGAGCCG TAATTACAGG CTTCCGACAC 120
 AAATAAAAAA GCTAAA 136

(2) INFORMATION FOR SEQ ID NO: 3315:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 139
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03888
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3315:
 GATCCACCT TCAACACCTT ACAAGTAAAG CCAATGAAGN ACAGTTGAAA CATGCAAAAT 60

ATGGNGCTTT TCATGTAATT ACTCTTTTAC TGTTTACCAT TCACTATAAT TCACAATTAA 120
AATTGTGTGN CTANACAAA 139

(2) INFORMATION FOR SEQ ID NO: 3316:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 133
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03889

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3316:

GATCTGTGTA GTTAATGTAT TTATTAATGC TTGACTTTTA AAATCCTGGG CATAAATAGT 60
GCAGAGCCTC GTATGTTTGT CAGTTCATGC CGAGATGAAA TAAATCACGC AGAAAGTGCC 120
AGTCCTCCTG AAA 133

(2) INFORMATION FOR SEQ ID NO: 3317:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 132
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03890

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3317:

GATCTGTGGA GTGTGTGTTT CAAAGAGAGA ACTACAGAAA TNTTAAAGCA GGAAAACCTG 60
AATGTNATGT GCACATTTTC ATCCACATG GACAATGTAT GTGTTTAAAT AAATGGAATT 120
TTCAGATTCA AA 132

(2) INFORMATION FOR SEQ ID NO: 3318:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 132
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03891

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3318:

GATCAAATGT GGGCCCGTTT TTGGCCGCCG CCGCCCTGCC CCGTCCCTNC GGCCACCACC 60
TAATTANTTG CCGTGCTTCC TGCTGCTGTA ACTGCTTTNT TACCTTTCCA ATAAAGANTT 120
TCTTGGTTTA AA 132

(2) INFORMATION FOR SEQ ID NO: 3319:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 132
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03892

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3319:

GATCATTATT ATTGTAATAG TCTCATGTTT AAATGGGATT ATATAATGAN AACAGTTTAA 60
 AGAAAATNAT AATCTTATAT NTCAAATGTG GATGCATATA ACCTGTNAGT GAAAAANCAC 120
 TGANTGATTT AN 132

(2) INFORMATION FOR SEQ ID NO: 3320:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 131
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03893

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3320:

GATCATATTG CTGTAACCTC TTTTAAGTAG TTGATGTGGA AAACATTTTA AAGTGAATTT 60
 NTCAAAATNC TGGTTTTGTG TTTTATCCAA CTTTGTGCA TATATATAAA GTATGTCATG 120
 GCATGGTTAA A 131

(2) INFORMATION FOR SEQ ID NO: 3321:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 131
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03894

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3321:

GATCCTCAGT GTAGTTCTGA AACTAAGACT ATAGATATTT NNTTTCTTTT AATTCTCTTT 60
 TATACTAAAG AATCCAGAGT TGCTACAATA AAATAAGGGG AATAATAAAC TTGAGAGTGA 120
 ATAACCATAA A 131

(2) INFORMATION FOR SEQ ID NO: 3322:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 131
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03895

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3322:

GATCTTAGAG TTTGCACAGC TTAAAAAAT GGAAATATTG GAATCTGAAT CCAAAAACAGC 60
 CTGACTCAAA ACAATGTNCT TNCCATTATG CAAGGGAAAA AAAAAANGGT TGGGTNTCAG 120
 NGNGAGGGTA N 131

(2) INFORMATION FOR SEQ ID NO: 3323:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 433
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03896

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3323:

```

GATCATAGTC TTAGGAGTTC ATTTAAACCA TAGGAAC TTT TCACTTATCT CATGTTAGCT 60
GTACCAGTCA GTGATTAAGT AGAACTACAA GTTGATATAGG CTTTATTGTT TATTGCTGGT 120
TTATGACCTT AATAAAGTGT AATTNTGTAT TACCAGCAGG GTGTTTTTAA CTGTGACTAT 180
TGTATAAAAC CAAATCTTGA TATCCAGAAG CACATGANGT TTGCAACTTT CCACCCTGCC 240
CATTTTTGTA AAAGTGCAGT CATCTTGGAC CTTTTAAAAC ACAAATTTTA AACTCAACCA 300
AGCTGTGATA AGTGGAAATGG TTAAGTGTTA TACTGTGGGT ATGTTTTTGN NTTACAGCAG 360
GTTAATGCTT TCTTTTCCA GGTGNCCTT TGAGGATTNA GGGAAAATTA NATAACTCTT 420
TGACAGTTC AAA
433

```

(2) INFORMATION FOR SEQ ID NO: 3324:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 129
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03897

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3324:

```

GATCCACCCA CCTCGGCCTC CCAAAGTGCT GGGATTATAG GTGNNAGCCA CCGCGCCGGG 60
CCGGTTGCTG GCATCTTAAT GTTCTGTAGG TGGAATATTT CCAATAAACA CAAGGTGCCG 120
TAATTGAAA
129

```

(2) INFORMATION FOR SEQ ID NO: 3325:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 129
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03898

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3325:

```

GATCTGGTAA ACTTNAATC AATTAAATTA ATGCANCAAT AGATTATNAA TATTAAGTGA 60
CCATTTAAGT TTTTNAATAA GTTTTTTACA AAGAAAAGTT AAACATTAAA AAGAATTACA 120
GCTTTCAAA
129

```

(2) INFORMATION FOR SEQ ID NO: 3326:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 128
- (B) TYPE: nucleic acid

(C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03899
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3326:
 GATCTGGAAA TTTTAAATC AGTTAAATTG TGCAGCAATA GATTTTAAAC TTAACTGAC 60
 CATTAAAGTT TTTNAATAAG TTTTACAA AGAAAAGTTA AACATTAAAA AGAATTACAG 120
 CTTTCAAA 128

(2) INFORMATION FOR SEQ ID NO: 3327:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 127
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03900
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3327:
 GATCCTGTAG TGCCTCTATA GAAGTACCCA CAGAAAGTAA AGTATCACAT TTATAAATAC 60
 CAAAGATGTA ACAATTTTAA AATTTTNTAG ATTACTCCAA TAAAGTGTTT TAAGTTTTC 120
 TATGAAA 127

(2) INFORMATION FOR SEQ ID NO: 3328:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 131
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03901
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3328:
 GATCCATCGC GATACTATGT GTGCATTATT TGAAAGTTAT TGGAAATTTT ATTCAAACCG 60
 TGGACAAAT GTATGTNATT TTTTATACT TCTTAATTTA AATAAATAT TTAATGCACT 120
 ATTAAAATAA A 131

(2) INFORMATION FOR SEQ ID NO: 3329:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 123
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03902
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3329:
 GATCAGCCCT TTGTACAGAA AAATGTGTCT ATAAAAATTA TGTGTTATTT AATTCTGATA 60
 CTTTTTGGCT TGTAATAGC TTCTTGAAC TTTTACAATA AAAATGTTTT AGAACTGTT 120

AAA

123

(2) INFORMATION FOR SEQ ID NO: 3330:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 123
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03903

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3330:

GATCATGACC GGAACATGGN CTGGGTTTCC ACCCAGCTCC AGGCCACATG CAATGTCCAC 60
 AAGTNTGCCT TCAATNACTG GTTCAGTGGA CACCTCAACT TCCAGATTGA GCACCATCTN 120
 NNN 123

(2) INFORMATION FOR SEQ ID NO: 3331:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 205
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03904

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3331:

GATCGATTCA ATGCCCGATG CTTCTGTTTC ATTCCCGACC CTTTCTACTA TGCATTTCCC 60
 TTTTATCAGG TGTATAAAGT TAAATACTGT GTATTTATCA CTAAAAAGTA CATGAAGTTA 120
 AGNGNAAACT AAGCCTTTTCG TGTTTTTCCA NAGGNCNGCN NGGCTTCTNT GTACAGTTGG 180
 AATAAACAGA CAGCAAAATG GTAAA 205

(2) INFORMATION FOR SEQ ID NO: 3332:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 122
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03905

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3332:

GATCCTCAGG CGGCCCCAC CAGGGCACAC CCTACTGTCC TTGTGCCTCA CGCCCCCTCC 60
 TCATCCTGCA CCCCTTCCAT CCCACCTTCC CTTTCAATAA ACAGCTGGGA TGGATACTGA 120
 AA 122

(2) INFORMATION FOR SEQ ID NO: 3333:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 120
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
(B) CLONE: HUMGS03906

(ix) FEATURE:
(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3333:
GATCTGATTT TTTCCCCCTT TACCTAGCTG TGCCCCCTCT GGTTATNTAT TTCCTTAGTG 60
CCAGGAGGGC ACAGCAGGGG AGCCCTGATT TTAAATAAAT CCGGAATTGT ATTTATTAAA 120

(2) INFORMATION FOR SEQ ID NO: 3334:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 119
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
(B) CLONE: HUMGS03907

(ix) FEATURE:
(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3334:
GATCACCAGT GCATCCTTCA TCACAGCATG TGCAATATGC CAAGATTACC CTCGGTCATT 60
CCTGTCAACA AGGGGTCAAT GTCATAAATG TCACAATAAA ACAATCTCTT CTTTTTAAA 119

(2) INFORMATION FOR SEQ ID NO: 3335:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 119
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
(B) CLONE: HUMGS03908

(ix) FEATURE:
(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3335:
GATCCATGAG GAAAAGATGC TCTCCACCT AAGGCCAGGA ATCTGAGAGC AGGACTGGCT 60
GAGCTCCAG GGCAAGGGGT TCACTAATGC TTATCAATAA AGAATATTGA GCCTGGAAA 119

(2) INFORMATION FOR SEQ ID NO: 3336:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 273
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
(B) CLONE: HUMGS03909

(ix) FEATURE:
(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3336:
GATCAGATTG CATGTNACTC TNAAGCTGAC GAACTTCCAT GGCCCTCATT AATGACACTT 60
GTCCCCAAAT CCGAACCTCC TCTGTNAAGC ATTCGAGACA GAACCTTGTT ATTTCTCAGA 120
CTTTGGAAAA TGCAATTGTAT CGATGTTATG TAAAAGGCCA AACCTCTGTT CAGTGNNNNT 180
AGTTACTCCA GTGCAACAA TCCTAGTGCT TTCCTTTTTN AAAAATGCAA ATCCTATGTG 240
NTTTAACTC TGTCTNCACC TGATTCAACT AAA 273

(2) INFORMATION FOR SEQ ID NO: 3337:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 119
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03910

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3337:
 GATCACCATG AACAAAGNTA TATTTCTAT TTATTTATTA TATGTGCACT TCAAGAAGTC 60
 ACTGTCAGAG AAATAAAGNN TTGTCTAAAT GTCATGTTGG AGATNCCTTT GCATNCTTN 119

(2) INFORMATION FOR SEQ ID NO: 3338:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 118
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03911

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3338:
 GATCAGGACT TCAAGGGCCA GACCACAGAC TACTTATAGG AGCATCTTCA AGGCGGTCAC 60
 AGTGAAAACC TTGAAATGGC CTTTTTNAAT ATATATAANT AANTGTNAAT ATTATTNN 118

(2) INFORMATION FOR SEQ ID NO: 3339:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 118
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03912

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3339:
 GATCCAAATN ATGGCCACAG ATGAACTTC ATGCAAGCNA TGGCTGAGTT TCATTGCTTA 60
 AAATNCTCCT CTGTTTAGAG GGGCCTGGTA GAAATAAAAA CCCACCCTAT ATCTTAAA 118

(2) INFORMATION FOR SEQ ID NO: 3340:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 118
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03913

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3340:
 GATCCTCCTG GCCGCCCGC AGGTCTNTGG AAGGGCTGGA CGGCAAGTCC GTNTAGCTCA 60
 CGGGCCCCCTC CAGTGAATG GNTCTTTCCG GTGGAGATAA AAGTTGATTT NCTCTAAA 118

(2) INFORMATION FOR SEQ ID NO: 3341:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 351
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03914

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3341:

```
GATCCCAGGT GCGTGTNTCT CTGTCTCTCC TAGCCCCTCT CTCACACATC ACATTCCCAT 60
GGTGGCCTCA AGAAAGGCCC GGAAGCGCCA GGCTGGAGAT ANCAGNCTCT TNCCCCTCGG 120
CCCTGCGTCG GCCCTGGGGT ACCATGTGGC CACAACCTGCT GTGGCCCCCT GTCCNNAAGA 180
CACTTCCCCT TGTNTCCCTG GTTGCCTCTC TTGCCCCCTG TCCTGAAGCC CAGCGACACA 240
GAAGGGNGNG GGGCGGGTCT ATGGGGGAGA ANGGGAGCGA GNTCAAGAGG TGGGCATGGG 300
TTTGGNAAGG GTNGGCGTTT GGGGGGCCTN TNATGNTGGC TTTTCAANC N 351
```

(2) INFORMATION FOR SEQ ID NO: 3342:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 117
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03915

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3342:

```
GATCATGCCG CTGCACTCCA ACCTGGGCAG CAGTGCAAGA CTCTGTCTCA AAAGGGGAAA 60
AAAAAAAANT TNCTGATGTG NCCCATGAAG GGACCTCATT TNCCTCGNAA TTTTGGN 117
```

(2) INFORMATION FOR SEQ ID NO: 3343:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 116
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03916

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3343:

```
GATCGGCCGT ACCAGCCGCC CCGCCGCGG GTGGGCGCTC TCGGACTACT CGCTGTACTT 60
GCCGCTCTGA GTCAGTGGCC CCTTCGTTCC TTGTAAATAA ATCCCGCCCC CGGAAA 116
```

(2) INFORMATION FOR SEQ ID NO: 3344:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 116
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03917

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3344:

GATCCAGACA AGTGGGAGAG CCCGTGGGGG CAGGGGACCT GGAGCTGCCA GCACCAAGCG 60

TGATTCCTGC TGCCTGTATT CTCTATTCCA ATAAAGCAGA GTTTGACACC GTCAAA 116

(2) INFORMATION FOR SEQ ID NO: 3345:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 116

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03918

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3345:

GATCTCATAA GAAATGTAAT ATGTAAATAA TATCTTGCTT TATGTTGTAA AATATACATT 60

GTTCGCNCTA GAATAGAAAT AATTTCTTTT CAATAAAAAG AAAGAAGGAC TCTAAA 116

(2) INFORMATION FOR SEQ ID NO: 3346:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 116

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03919

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3346:

GATCGTTGTG TTGTTATTTT ACTGCACTTT TACTTTTTTT NCGTGTGGAG CTGTATTCCC 60

GAGACCAACG AAGCGTTGGG ATAATTTCATT AAATGTAGCG ACTGTCAACA GCGAAA 116

(2) INFORMATION FOR SEQ ID NO: 3347:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 116

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03920

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3347:

GATCAAGGCC AAATAACCCG ATTTGGTTTG GGCCTCAAG CAATAGTAAA GCCTGTAAGA 60

CATGATAGGA TTATNTTCCC CTTTGGATTT AAATNTAATA TAGCAGTTGG ATTAAA 116

(2) INFORMATION FOR SEQ ID NO: 3348:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 115

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03921
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3348:
 GATCCTGTAG ACCCTTTCTT TTGGCCAATT TCCCCCTTTT TGGGATGGAA ACATTTACCC 60
 AATCCCTATA CCCCATTGT ATCTTGGAAG TAAATAATTT GTTTTGTATT TAAA 115

(2) INFORMATION FOR SEQ ID NO: 3349:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 115
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03922
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3349:
 GATCTCTTCA CTGTNAAAAG TTGCCCCGGGT GCAGCGCCTT TCCCTTCTAN CATGGGAAAT 60
 GCAGGCTGGG CCCTTGGGNT NAGCCTGCGG GGCTCTGGTG CTGTCCCCGA CCCNN 115

(2) INFORMATION FOR SEQ ID NO: 3350:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 113
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03923
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3350:
 GATCCACTGT TTGCAGCAGA ATTATATATA TGTATAGGAA AAATCCACTT TGAATAATCC 60
 ATGTTTTGTA TTTGGAAATT GTTTTTAAAA ATAAAAAGGA AAGGAAATAT AAA 113

(2) INFORMATION FOR SEQ ID NO: 3351:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 113
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03924
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3351:
 GATCTAGGCA GTGGGTTAAG CCAGACCCCT AAAAGTGACC CTTTCCTCTT CTGCCCTATT 60
 CTNCTNAGAC CCTCAGAAAG NNNTCCAATT TTTTAAATC CCTGTAGCTC CAN 113

(2) INFORMATION FOR SEQ ID NO: 3352:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 117

(B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03925
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3352:
 GATCTGATGA ATTGGTTTTT GAATCCCAGA AANGGTCTGC CATGGAGTTG GCAGTCATCA 60
 CGGTAGATGG CGTATGATTT TCCTGAATTT TAAATAAAAT GAAAACCATA AATTAA 117

(2) INFORMATION FOR SEQ ID NO: 3353:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 112
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03926
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3353:
 GATCAGAGCT GTTAGGTAAA GGCCTAACCA CCTCCCTGCA GNCTCTTAAN TCTCAAGCTT 60
 TAGGAACCCA TTTCTAAANG TACACTAGCG GAGANTTTAT ATTGTCAGCC NN 112

(2) INFORMATION FOR SEQ ID NO: 3354:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 111
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03927
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3354:
 GATCACGGTA CGTCCATAAA GCCAGTATTA CACTTAAATN NAGTATTCTT TTTTGTAATC 60
 GTTTTTTTTA GAAGGTAAAC AAATTTAATA AAGCTACCAA TAATGTTGAA A 111

(2) INFORMATION FOR SEQ ID NO: 3355:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 111
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03928
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3355:
 GATCTAGAAA NTGCCCTCCT TATACCCCTA CCATGAGCCC TACAAACAAA AAACCTGCCA 60
 CTAATAGTAT GGTATCCCT CTNANTAAAN CATCATCCTG GCCCTAAGGN N 111

(2) INFORMATION FOR SEQ ID NO: 3356:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 111
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03929
(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3356:
GATCTTTGCA ATTNAAGGNT TAGCCACGTG GCTTGCTTCA GCNAGTAATG TGAATGGAAA 60
TAACGTGTAT CANTGCTGGA TAGAAACTT AANAGCCAAC ACATGGTTCC N 111

(2) INFORMATION FOR SEQ ID NO: 3357:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 110
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03930
(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3357:
GATCCCGTAG AATATATATT TAATAATCCC ACAAACGGAG GCCAGACTTC TCGTTAACT 60
TCAGTAACAC AAGCTTCTTT AAGCCAAATA CATCACTTGC CACTACCAAA 110

(2) INFORMATION FOR SEQ ID NO: 3358:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 110
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03931
(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3358:
GATCTCCGTG GTGGTCGTGG GCCGCCAGGT GAATNANCCC CACATCCGCN TCCTGGTCAC 60
CGGCAAGACG GCCGAGTACG ACGTGGCCTA CGGCGAGAGC ACCTNTNCCN 110

(2) INFORMATION FOR SEQ ID NO: 3359:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 115
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03932
(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3359:
GATCCTTCGA AGCACTCAGT TCACTCTTCC CCACCACAGT GGTTAAAAGG CGTTTGTATC 60
TGCCACTATG TGTGTGTTTT AAAATAANCT TTTGGAAACA TGTTTGGNGN GNAAA 115

(2) INFORMATION FOR SEQ ID NO: 3360:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 214
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03933

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3360:

```
GATCCACTAA TGTAGCTTAA GGTTATTAGN TTTGGGCTTT TAATCATGGN ATAATCTTAT 60
GTATTGGTGT AAGAGTTGAT GAATGACTTT AGCTGTGTGA ATATATAATA GTCAAAGTGC 120
AAACATTTTG CATCCCTTTT GTGACCTAAT TTACAGNCAT TTAAATTGTG TTGCAGTTCT 180
GCTTTGCCGT TTAATAAAAA GCTATTTTCAG NAAA 214
```

(2) INFORMATION FOR SEQ ID NO: 3361:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 110
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03934

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3361:

```
GATCANAGAT TTCAATNACA GTGCAGGAAA GCAGCACTGA GAAACTTTTA ATTGTNTTNA 60
ATTTCTNCTT TAATGTTTAC ACCACCACAT TCCCATTCAC TTTAATTTTN 110
```

(2) INFORMATION FOR SEQ ID NO: 3362:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 108
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03935

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3362:

```
GATCTTCCCC TGACCTGCTC CCAGGGCTAT AACAGATACG GACTTTGAAA CTGTATGGAG 60
TATAGAGCAG TGCTCTATAA TTAAAATAT ACATATATTG CAACCAAA 108
```

(2) INFORMATION FOR SEQ ID NO: 3363:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 363
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03936

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3363:

```
GATCTTCAGC TTGGTAGATT TAATTGCCCA GTGAATGGCA CTTACGTTTT CATTTTNNAC 60
ATGCTAAAGC TGGCAGTGAA TGTNCCACTG TATGTCAACC TCATGAAGAA TGAAGAGGTC 120
TTGGTATCAG CCTATGCCAA TNATGGTGCT CCAGACCATG AAAGTGCTAG CAATCATGCA 180
ATTCTTCAGC TCTTCCAGGG AGGCCAGATA TGGTTACGNC TGCACAGGGG AGCAATTTNT 240
GGAAGTAGCT GGGAAATATT CTACGGTTTC AGGCTATCTN CTTTATCAA GGTGGAATG 300
TCAGTNCAGT NTTTGACNAC TAAAGGNNNT NGGGGTNCTA ATTANGTNGG GTTGAAGGG 360
TAN 363
```

(2) INFORMATION FOR SEQ ID NO: 3364:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 106
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03937

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3364:

```
GATCTGGGGA GTNTNAGGAG AGGGTGGCAT CAGNAGCTGC TCAGGCTTGG CGGAGGGAGC 60
GGCATGGCCG ATGTCACTCA GCCCCTTCCC GGTCCGCCCN NTTCCN 106
```

(2) INFORMATION FOR SEQ ID NO: 3365:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 105
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03938

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3365:

```
GATCGTTTTT TCCAGAGTCG CGGGGACACA GGAGTNTTCC TACAGTACAT NCACGCCCCG 60
NTCCACAGTT TGGAAGAGAC TTTTGATGT GGTACNTGA NTGAN 105
```

(2) INFORMATION FOR SEQ ID NO: 3366:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 105
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03939

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3366:

```
GATCATCTAA AAAATGCCAT GANTGGAAAT NCGAAGGCCC AGACACCAAT ATTCNTAGA 60
AGTAAACAGC TCAAAGACAC TCTCCTATCT NAGGAAATNA ATGTN 105
```

(2) INFORMATION FOR SEQ ID NO: 3367:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 104
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03940
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3367:
 GATCCAGTGG GGTCCGGACA CTGGGCCCCG CAGCGAAAGC ACGNTCCAGC CACCAGGAGG 60
 CCACCTATTN TTTCAAATA AAGACTGCGT TCCTCTCTTG GAAA 104

(2) INFORMATION FOR SEQ ID NO: 3368:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 104
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03941
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3368:
 GATCAAAAAA GAAGAGTTAA AACAACACAT GTAAATNCCT TTTAATATTT NATGGGAATG 60
 CCTCTCATTT AAAAATAGAA ATAAAGCATT TTGTTAAAAA GAAA 104

(2) INFORMATION FOR SEQ ID NO: 3369:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 104
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03942
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3369:
 GATCCTTTAT CTTTCCATAT GGCACACGTA AGAAAGTGTT TTTCTACTAT TAATATTAAA 60
 TTAAAACCTT TACTTNTGTA TAATAAATNA AAACCTCAGAA TAAA 104

(2) INFORMATION FOR SEQ ID NO: 3370:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 104
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03943
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3370:
 GATCTGGAAG AGGCTTGTA CTTGAACCTAN TATGTAGGAA GGCAGTACNA NCAGCCCACC 60
 AGTGTAATCT CCCTGNATTA AGGCATTCTT AAAAAGCTTAG GCNN 104

(2) INFORMATION FOR SEQ ID NO: 3371:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 104
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03944

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3371:

GATCCGCTCT GGTCAAACCC TTCCAGGCCA GCCAGAGTGG GGATGGTCNN TNACCTGCTG 60
GGAAGGCANN CTGATGGGGC ACACCCTTGG CCTCTCGTCC ACGN 104

(2) INFORMATION FOR SEQ ID NO: 3372:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 102
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03945

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3372:

GATCAAAATT TNTTGATAAT TTAAAAATTG TGTGTGATTT TNAAATTTNA AGAAATTGCT 60
GAAAACCTTAG AAAAATATAA TGGTATACAT ACAATAGNNA AA 102

(2) INFORMATION FOR SEQ ID NO: 3373:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03946

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3373:

GATCAATAAT TTAAATGTAA CTAGTTGGGA TTTTATAGTT AAAATNATAT TTGTGTATAT 60
AACATAACTA ATCTGTAAAT NGTAATAAAT ATATTNCAA TTAAA 105

(2) INFORMATION FOR SEQ ID NO: 3374:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 99
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03947

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3374:

GATCATTTAG TACTTTTGTN TTCTCCCATG TGCTTGAAGG AAAAATAAAG TGTCCTACC 60

GTATTTNTTG TTTTCATCAA AAAATAAAAA TAATTTAAA

99

(2) INFORMATION FOR SEQ ID NO: 3375:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 97
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03948

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3375:

GATCTTTAGC ACAGTGATAT NACCATGACT TCACAGACAT GGTCTAGAAT CTGTACCCCTT 60
 ACCCACATAT GAAGAATAAA ATTGATTAAA GGTAAAA 97

(2) INFORMATION FOR SEQ ID NO: 3376:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 97
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03949

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3376:

GATCAATAAT AATNAGGAAA GCATGATATG TATATTGCTG AGTTGAAAGC ACTTATTGGA 60
 AAANATTAAA AGGCTAACAT TAAAAGACTA AAGGAAA 97

(2) INFORMATION FOR SEQ ID NO: 3377:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 94
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03951

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3377:

GATCCCCCTC CTTCCCCCTC TCCCCATTGT ATTTATTTGC CTGCTGGAAA ATNACATCCG 60
 GAAATAAAAT AGAAATATGT CTTTNNATTT TAAA 94

(2) INFORMATION FOR SEQ ID NO: 3378:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 93
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03952

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3378:
 GATCCTAAAC TTTTGGATA ATCTTTTATA TTTNTAACCT TTGAATTAA TCATTGTNCT 60
 NAGATTAAAA TAAANATGC TATTGAACT AAA 93

(2) INFORMATION FOR SEQ ID NO: 3379:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 91
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03954

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3379:

GATCTGGAAA TCCCTGCTGT AATCTTTTAA AGGGAATCCA CTGGAAATAA TTAGTTTTTG 60
 TTTTAAATAA AACCATTCTT TACTTAACAA A 91

(2) INFORMATION FOR SEQ ID NO: 3380:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 91
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03955

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3380:

GATCTATGGC CTCTGGTGCT TTGTCCTGTA TTTGGTTTAA TNTTTTGTGTC CTAATCTCTT 60
 CAATCAATAA AATTGTGCGT ATTTAACTAA A 91

(2) INFORMATION FOR SEQ ID NO: 3381:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 91
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03956

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3381:

GATCAACTNA ATGTTTAAGA CTTTAGATGT CTTGTATTAA AAATTACACA AAAAAAGTAA 60
 AACTTTTTAT ACTTACCCTT TTAACCTAA A 91

(2) INFORMATION FOR SEQ ID NO: 3382:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 90
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS03958

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3382:
 GATCTCTGTA ATNTTATNTA GAGTTTGAGC TGAAGCCCCG TATATCTAAT NTATTTTGTT 60
 AAACATGAAA GTGCATCCTT TCCCTCCAAN 90

(2) INFORMATION FOR SEQ ID NO: 3383:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 88
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03959

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3383:
 GATCATACCT ATTAAAATAA TGCCAAACAC CAAATATGAA TTTNATGATG TACACTTTGT 60
 GCTTGGCATT AAAAGAAAAA AACACAAA 88

(2) INFORMATION FOR SEQ ID NO: 3384:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 88
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03960

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3384:
 GATCAAGAAG ACGNNTAAGG GAAGAACGTA CACAGTGAAA ANCCAAAAAA AGAAAAAAT 60
 GTTTATACAA CCCTAAGTCA ATAACCTN 88

(2) INFORMATION FOR SEQ ID NO: 3385:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 87
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03961

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3385:
 GATCTAGGCA CACCTNGCTC TTNGCTGCAT GTGGTTATNA ACANCTTCCA GTGGAAGTCG 60
 AATAAACAGT TTTTGGTAAA TCTCAA 87

(2) INFORMATION FOR SEQ ID NO: 3386:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 85
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03962

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3386:
 GATCCTGCCC TGAATCTCCA TAGTCTCCAC TGTGAACTGA GGAGGGGAGG GGTGTGCTGG 60
 GGAATAAATC TTGTATGAGA ACAA 85

(2) INFORMATION FOR SEQ ID NO: 3387:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 84
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03963

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3387:
 GATCCATTTA NAGGCCAAAT NTCATTCTGC AGGTGCCTTC CCGATGGATT AAAGGTGCTT 60
 ATNTTTTTTTT AAGTTTNAAG TAAA 84

(2) INFORMATION FOR SEQ ID NO: 3388:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 81
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03964

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3388:
 GATCGTGTTT ATTTTGNTTT CCGATTCTAG ATATAAGTTT TGNATGGGCA GGAAGACTAA 60
 AATAAAAGTT TTTAAGGTAA A 81

(2) INFORMATION FOR SEQ ID NO: 3389:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 81
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03965

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3389:
 GATCTCCAGA TGTAATTTCC CCTCTTTAAT TTAAANTAAT NTAAAGATTA CTAAACAAT 60
 AAAANCTCCT AAAAANTCAA A 81

(2) INFORMATION FOR SEQ ID NO: 3390:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 88
 (B) TYPE: nucleic acid

(C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03966
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3390:
 GATCTTTCTT TCCAAAACAT TTCTGGACAG TACCTGATTG TATTTTTTTT TTAAAAATAA 60
 AAGCACAAGT ACTTTNGNGN TTGTTAAA 88

(2) INFORMATION FOR SEQ ID NO: 3391:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 76
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03967
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3391:
 GATCCCCCA CAGCCCCTGG TCAGTCTGCC CTTGTCAGTG GTCTGAGGTC ATTAAAATTA 60
 CATTGAGGTT CCTAAA 76

(2) INFORMATION FOR SEQ ID NO: 3392:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 78
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03968
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3392:
 GATCACAATC ATTTTGAATC CCTCTTCCTC ACTTTTTTTT CTAAGAAAAAT AAACATTTTA 60
 CTGTTTTTAT GGAATAAA 78

(2) INFORMATION FOR SEQ ID NO: 3393:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 73
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03969
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3393:
 GATCACAGCT GACATTTACA AAATATTTTT NTACCTTAGA ATTTCTGCAT TAAATAAAAT 60
 ATTTTGTTTT AAA 73

(2) INFORMATION FOR SEQ ID NO: 3394:
 (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 68
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03971
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3394:
 GATCTTTTGC TAATGCAATT AGNATTATGT TTTGCATGTA TGACTTAATA AATCCTTGAA 60
 TCATAAAA 68

(2) INFORMATION FOR SEQ ID NO: 3395:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 67
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03972
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3395:
 GATCCTCTAA ATNTGGAATT TTGATGTAAT AACTGCTAAT AAAATNATAT TGAAACTGTT 60
 TTATAAA 67

(2) INFORMATION FOR SEQ ID NO: 3396:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 65
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03973
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3396:
 GATCAAAGCC CGGAAAGGCA AATGAAGCNT CATGTGTAGT GTAATAAAGN TGTCTGCTGT 60
 TCAAA 65

(2) INFORMATION FOR SEQ ID NO: 3397:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 65
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS03974
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3397:
 GATCGAAGCC TGTGTAAAAT GCTACCAAAT GGCAAAAAGC AACAATAAAC AGTTTGATTT 60
 TTAAA 65

(2) INFORMATION FOR SEQ ID NO: 3398:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 64
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03975

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3398:

GATCCCCAAT ATATCTACCA TTGTATGTTA AATAAATNAC CATTTTTGTA GAAAAAATTC 60
TAAA 64

(2) INFORMATION FOR SEQ ID NO: 3399:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 71
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03976

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3399:

GATCTGTAAA TNACTTTAAA AGCTATTTTA GTAATTTAAA TAAATTTACT TTCTTGTTT 60
ATACTCTCAA A 71

(2) INFORMATION FOR SEQ ID NO: 3400:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 63
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03977

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3400:

GATCTCTATA NTTTTTTTTTA AATTTTCTCC AGCCTGGGTG ACAGAGCGAN ACTCCGTCTC 60
AAA 63

(2) INFORMATION FOR SEQ ID NO: 3401:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 63
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03978

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3401:

GATCTCCTGC TGCCTTTCCT GGAGTTTGTA AAATTNTNCC TGAATACAAG CCTATGCGTG 60

AAA

63

(2) INFORMATION FOR SEQ ID NO: 3402:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 62
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03979

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3402:

GATCCAAGCA TAGTAGAAAA GCTTCATGTG TTTTAAAAA TAAACAATAA CAAAAAATTA 60
AA 62

(2) INFORMATION FOR SEQ ID NO: 3403:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 61
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03980

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3403:

GATCATGTGT TCTGGAGAGT GTTCTTTATT CAATAAAGTT TTAATTTAGT ATAAACATAA 60
A 61

(2) INFORMATION FOR SEQ ID NO: 3404:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 61
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03981

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3404:

GATCTAATTT TTCAACCTT CACTATTTTG AAAATATAAC CAAGGCCGGT TCGGGTGGAA 60
A 61

(2) INFORMATION FOR SEQ ID NO: 3405:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 60
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03982

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3405:
 GATCATGAAA CTGATTGTAA AGCTTTTTGA CAACTAATAA ATGTCTTGGT AATTGCTAAA 60

(2) INFORMATION FOR SEQ ID NO: 3406:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 59
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03984

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3406:
 GATCAATGGA TTTGTTTACA ATGTGATATT TTCTATTAAA TCCAGTATTT TCAAATAAA 59

(2) INFORMATION FOR SEQ ID NO: 3407:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 58
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03985

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3407:
 GATCTTGTAC TAACTTATGA TAGAATGTAT CAGAATAAAT ATTTTAAACA GTGTTAAA 58

(2) INFORMATION FOR SEQ ID NO: 3408:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 53
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03986

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3408:
 GATCATNAAA GTATACAAA TAAATAAAGT AGGAGATTTT TTTGCTGTTT AAA 53

(2) INFORMATION FOR SEQ ID NO: 3409:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 121
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03987

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3409:
 GATCTGTTTA GTGAGATTTA GCATGTGTGA ATAAAGTATA TGCAGGAGGA AATTGCTTTG 60

TNTTCCCAAT CGGTAGAAAT TCGGGACCAT AAAAATTGTG TTTTACCATG TGGCCTACAA 120
A 121

(2) INFORMATION FOR SEQ ID NO: 3410:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 51
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03988

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3410:

GATCATTGTT AAAGGATTGC TGCAAATAAA TACACTTTAA TNTCAGTCAA A 51

(2) INFORMATION FOR SEQ ID NO: 3411:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 60
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03989

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3411:

GATCTTTAAA ACATTTTTTAA TGAATAAGT TGAATAAAGG CACAATTAAA AACTGTCAAA 60

(2) INFORMATION FOR SEQ ID NO: 3412:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 53
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS03993

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3412:

GATCAAACAG AAGCAGCCGT GGGCAAATA CAATTTTATT TAACAAATTG AAA 53

(2) INFORMATION FOR SEQ ID NO: 3413:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 521
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04020

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3413:

GATCTCATAG GACGGAGGGG GAAATGGTTT CCCTCCAAGC TTGGGTTAGT GTGTTANCTG 60

```

CTTATCAGCT ATTCAGACAT CTCCATGGTT TCTCCATGAA ACTCTGTGGT TTCATCATTC 120
CTTCTTAGTT GACCTGCACA GCTTGGTTAG ACCTAGATTT AACCCTAAGG TAAGATGCTG 180
GGGTATAGAA CGCTAAGAAT TTTCCCCCAA GGACTCTTGC TTCCTTAAGC CCTTCTGGCT 240
TCGTTTATGG TCTTCATTAA AAGTATAAGC CTAACCTTGT CGCTAGTCCT AAGGAGAAAC 300
CTTTAACCAC AAAGTTTTTA TCATTGAAGA CAATATTGAA CAACCCCTA TTTNGTGGGG 360
ATTGAGAAGG GGTGAATAGA GGCTTGAGAC TTTCTTTTGT GTGGTAGGNC TTGGAGGAGA 420
AATCCCCTGG NCTTTCATA ACCCNTNTGG ACATACTNCC CACAACCCAG TTNGATGGGN 480
TTTCCCGTAA TAAAAAGGGN TNGGGNNTTN CCTTTTTGAA A 521

```

(2) INFORMATION FOR SEQ ID NO: 3414:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 501
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04021

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3414:

```

GATCAGAAAT NACTGTGTCA TGGTGCTCAT TCACTGCAAA CTCCCAGTTG NAAGCTCCTT 60
GGCTCCCCCG GAGGAGCAAG AATCTCATAG TTCAGAGACA CAGAGGGCCT TTTAGCCCTA 120
ATNACCTTTT GGATGGGACT GCAACTCATG ACTATCCTGA TATTGGAAGA AAGGACTTTG 180
TTAATCTTCT CCCCCATAGC TCTGCTGCGT AGGTCTACAT CTTACTCAGA ATCACTACAC 240
ATTCTTTTAG TCTTCCTCCA AGCTCCAGAG CCATTGGTAC AAATGCTTTA TTGAAACTAA 300
ATACATANTN NACACAATGA GATGAAGACA ATATAGANGT NCGCATAGTC ATCATAATCC 360
CGTTCCTTGG CCGGTTGAGG CAGCTCAGTG GCTGAGCCCA GTCAAGCCAA CCCGGNAGTT 420
TCACTCACGG CNTTCAAGGN TTTTGATGCT AATTCTTTTG GGTTTCCTAC AGTTTATTAA 480
ATAAGTNGTC TGNGTGGGAA A 501

```

(2) INFORMATION FOR SEQ ID NO: 3415:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 485
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04022

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3415:

```

GATCTCAGTG AACTAATACA CAGCTTGAGC GTTTCATGT GCTAATGTTG CACATTTACT 60
AAAAAAGTTT GGAAATGGAA AATAATGTAT TAGTGCAACA GTTGATGTGC TTCTTTGGGC 120
AAAGATATAG TTTTGTTCCA CAATTTGTAC TTAAGCGA AAGAACATTG AAAACATAGA 180
CTTACTGGCT GTAGCAATGC TGGCCTGTTA ACTGATAACT AGAACTTAGG TTCACGTTTA 240
TGTAAGTGT GTAAACCTA GTAGAGCTTG CATAGTCGGG CACTCAGTAA ATGGTTTGGT 300
TCCTTTTGCC CCTTGGTAAG TTTATTTTAC CCATCCNCCC ACCTGCCCAT TCTGACTTTN 360
TATTAAAATC ANCCATGTGG GACCCAGNGG TGTTTAATGN GGATGTTATT NCCAGAAGGA 420
GGATTTGAGA AAAATTTGGG GATTNTCATT GCAGGTTAAC NATTCCAAAA ATNCTTTTGT 480
GTAAN 485

```

(2) INFORMATION FOR SEQ ID NO: 3416:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 471

(B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04023
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3416:

```

GATCTGTTTT TTCATCGAGG TNTCGAGGTA TNCTTTNAAA GATAGTGANA NGCAGACACT 60
GCTCCTTG TG CAGCTCTGGT ACCTCCTGCC CACTGCTGTC ACTTCAAGCC ACTGGCAATG 120
CTTCTGTCCT CGTGTCTTGG AGGAAAATCA CCTGGGGGGA GGGGACTTCT TGTGGTAAGA 180
GCAAGTGCAG GTATGAAATG CGAAGATTGC CCCAGCTAAA AGTGGACAAG TCCGCTTTGT 240
GAGATGAATA CTTCTGAGA NNCNNNNCAA GTATCTCTCC ATTTTACCAT TATGAAAAC 300
ATCATTAAAA AAAACAGTTT AGATGCCTTC TCCTTTTGAG GGAAAAAGGG TGCTTTTAT 360
TGTATAAAGC AGCGTCTTAT GTATTTTGAT ATACCATTGT TTGAACTTCC GTCTTTAGCT 420
GATAGATTCT CAAATATCCT NGATTTTGGG ATGTTTCAGTA TGTTTGTGAG N 471
  
```

(2) INFORMATION FOR SEQ ID NO: 3417:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 466
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04024
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3417:

```

GATCAAATAT ATTTCAAGCT ATAAAAGCAG GAGGTTATCT GTGCAGGGGA CTGGCATCAT 60
GTATTTAGGG GCAAGTAATA ATGGAATGCT ACTAAGATAC TCCATATTCT TACCCGAATC 120
ACACAGACAG TTTCTGACAG GCGCAACTCC TCCATTTTCC TCCCGCAGGT GAGANCCCTG 180
TGGAGATGAG TCAGTGCCAT GACTGAGANG GANCCGACCC CTAGTTGAGA GCACCTTGCA 240
GTTCCCGCAG AACTTTCTGA TTCACAGTCT CATTTTGACA GCATGAANTG TCCTCTTGAA 300
GCATAGCTTN NNNAATATCT TTTTCCTTCT ACTCCTCCNT CTGACTCTAA GAATTCTCTC 360
TTTCTGGANT CGCTTGAACC CAGGANGGCG GGAGGTTNCA GTAAGCCAAG GTCANTGCNA 420
CTGCACNTTT AGCCTTNGGT NANAANTNGA GGTTCATT TNTAAA 466
  
```

(2) INFORMATION FOR SEQ ID NO: 3418:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 464
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04025
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3418:

```

GATCGCCAGG CTGATTGAGA AGAACAAGAT GAGTGACGGG AAGAAGGAGG AGCTCCAGAA 60
GAGCTTAAAC ATCCTGACTG CCTTCCAGAA GAAGGGGGCC GAGAAAGAGG AGCTGTAAAA 120
AGGCTGTCTG TGATTTTCCA GGGTTTGGTG GGGGTAGGGA GGGGAGAGTT AACCTGCTGG 180
CTGTGAGTCC CTTGTGGAAT ATAAGGGGGT AGTGGGAAAA GTGGTACTAA CCCACGATTC 240
TGAGCCCTGA GTATGCCTGG ACATTGATGC TAACATGACC ATGCTTGGGA TGTCTCTAGC 300
TGGTCTGGGG ATAGCTGGAG CACTTACTCA GGTGGCTGGT GAAATGACAC CTCAGAAGGA 360
  
```

ATNAGTGCTA TAGAGAGGAG GAGAGGAGTG TACTGCCCAG GTCTTTGACA GGTGTAATTC 420
TCATTCANTT AAAGGTTTCA GTGTTTTTGG TTAAGGTGGA TAAA 464

(2) INFORMATION FOR SEQ ID NO: 3419:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 457
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04026

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3419:

GATCACCTTC CTGTCTGGAG GCCAGAGTGA GGAGGAGGCG TCCATCAACC TCAATGCCAT 60
TAACAAGTGC CCCCTGCTGA AGCCCTGGGC CCTGACCTTC TCCTACGGCC GAGCCCTGCA 120
GGCCTCTGCC CTGAAGGCCT GGGGCGGGAA GAAGGAGAAC CTGAAGGCTG CGCAGGAGGA 180
GTATGTCAAG CGAGCCCTGG CCAACAGCCT TGCCTGTNAA GGAAAGTACA CTCCGAGCGG 240
TCAGGCTGGG GCTGCTGCCA GCNAGTCCCT CTTCGTNTCT AACCACGCCT ATTAAGCGGA 300
GGTGTTCCTCA GGNAGCCCCC AACANTTCAG GCCCTGCCCN NNTNCCAAC NTNTTGAAGA 360
GGAGGNCGCC TTCTTNGGGG GCTTCCAGGT TNGGNTTNC CCGGGNTTTT TTTTTTCCC 420
TTGGGTGANA NATGGGTNGT TTNGGNGGCG GTNTTTN 457

(2) INFORMATION FOR SEQ ID NO: 3420:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 452
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04028

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3420:

GATCTGGAGG GGTCAACGGA AGACGGAACA TGTCCACTTC CAGGCCCGAG CTTCTNAGCC 60
TGCCGTTTGC CACTCTCCAG CATCTGGCCC AGCCTGTCCA TCCTCATCTC TCTTCTCCN 120
NNACTCCGTG CTCCCATCAC TNGGAACCAT TTGCATTNT TTGTCTCAGC TATATTGTCT 180
CACCTCTGAG TTTTGGCCCA TGATGTTGGA TGCCATGGAA TGCCATATCN TCCCCATTAT 240
CTCCCCCTTG TNTGGATAAT TCCTACTCAT CCTACAATAC TGATTTTAT CTGTGCAAAG 300
AAGGTCTTCC CCAAGTGGCC TCTGGGTTNG ANAAGGGGNG TTCCTCTGGC TTNTTCCAGA 360
CTTTTTTGTT TCCTNCAACC AAAAGGCTTT AGGCACCGTG GGGGAAGGAG GGGTNTTNT 420
TNGTCCNAGG GAAAAAGNNT NGNGGCAAT GN 452

(2) INFORMATION FOR SEQ ID NO: 3421:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 450
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04029

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3421:

```

GATCAAAACT AACCTTTCAG CGTATTCTCA GCTATGACAC AGTGGTGCAA ACAACTGGAG 60
ACTCGTGGCA CATACCATAT GATGAAGACT TGGTAGAAAG ATGTTCTGT GAAGTACCAA 120
CCAAATGGCT TTGCCTCCAC CAAAAGACAT AGAGATTCTT ACCTCTATGC TAAGTTTGTG 180
TTTGGGTACC CTCTAGGTTG GCATCAGAGG CTCTTGAGCT GGTGTTTGT TAGGGCATTG 240
CCTCTGTCTT GAAGATAAAA GGATTNTATT AACAGCATTG ACATTGATTT TTTAATGAAA 300
TGAGATATAT CTTTTCATAA CCAGCTGCGT TTTTTTCCCC TAACATTTGT TTTTGGAGGG 360
CTTATCAAGA GTTGGAGACC TTAGTGTAGA GCAAACCTG CATTTCTCCT ACTGGGCCAG 420
CTATTCCACT TAGGCTTGGG TGACTAANAN 450

```

(2) INFORMATION FOR SEQ ID NO: 3422:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      444
(B) TYPE:        nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04030

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3422:

```

GATCCCAAGT ATTAGGAGCT ATTTCTTAAA TAGTTTAAAT TTGCCTTTGA AAAAAGTTCC 60
ATTACTTAAA AGTATTAATT TAAGCAAAAT CATGGAACAC ATTGACTAAA AAATACCTTT 120
TATTTTTACT CAACTTGTTA AAGGGGCAGA TAAAGACTTT GGCAAATTTG ATTAAGTACA 180
CAAAATAATG TTATCCAAAC TGAGTAATTT ATTGCTGGTC TGNGGCTTGC CTTGTTTACA 240
CTTAAGTAGA ATTTACGTTG TTTCCACAAA TGGCAGATAT CANCETTTAA AGGNATTTAA 300
TAGTGACCTA TTCAATAAGG CANTCATCTG GGGTAGCAAA CTTTTNTTTA AATCTNACAT 360
AACCTCAGGC TTTATAANAA NGCCACCATA ATTGAAAAAT TGGGGNTCCT CCCCTCTAAA 420
NGCCTTAAGG GATTCAAAGG CTCN 444

```

(2) INFORMATION FOR SEQ ID NO: 3423:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      439
(B) TYPE:        nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04031

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3423:

```

GATCTTGTA AAATGCTGTT AGTATCCAAC CTAAAAATAT ATTAGTATAT GGGTTTTTAT 60
TAAAAGAATT ACTTTGAATT TNCTATTTAA TTCATATGTA AATAAAGGAA CATTTCATT 120
CACTTAAAAA AATTATATCA GTTATTAGGC TGGGTGCACT GGCTCATGCC TGTAATCCCA 180
GCACTTTGGG AGGCCAAGGC GGGTGGATTA CCAGAGTTCG GGAGTTTGAG ACCAGCTTGA 240
CCAACATGGA GAAACCCCGT CTCTACTAAA ATTACANAAT TNGCCAGGTG TGGTGGCGCA 300
TGCCTGTAAT CCTGGGCTAC TCAGGAGGCT TGAGGCAGGN GAATNGGNTT GAAAACCCCN 360
GGGGGNNAGA GGTTCGCGTT GAGCTGAGNN TTGCGCCATT NNACTTCNN CCTGGGCAAG 420
GNGGGNGNA ACCTNTNNN 439

```

(2) INFORMATION FOR SEQ ID NO: 3424:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      437
(B) TYPE:        nucleic acid
(C) STRANDNESS:  single

```

- (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04032
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3424:

```
GATCTAAGAA ATCATGTGCA TATATCTTTC AGATTTCTAT TTTGGGAAAN TGAAGGTTTC 60
TACAACATAT TGTTCAGTG TTCAAATAAA CTGAAGGACT CAACATTACA TTTGAACTAT 120
ATCCTTCCTA GTGGGTTAGT GTGAAAAAGN GNTTGGCTGA TTCCTAAAAC TCTGCCAGCC 180
CTGCAGTAAT CTCCAGGGNC NNGTTATTGT TCAGACATTC CNTGGTGATT CCTGGGAAGG 240
AAGCTTGGCT GCTCAGTTTC TGAGTCTGGG GTGAGATAAT GTTCTGGGAA GGGACATCTG 300
TTCTTTGGTG TAATCTCTCA TGGTGAAATC TGCTCTGTAC ATCAGACAAT TGCATTGCTA 360
CCAAGTTTCA TACCAAATAT TTGAAAGGTT GGTATTGAAT CTAAANCCAA ATATTAGTTT 420
TTNTTAAACT CATGGGN 437
```

(2) INFORMATION FOR SEQ ID NO: 3425:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 424
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04033
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3425:

```
GATCCAAACC TTACACCTGA GTCTGTAAAG AGCGCCCTGC TACAGGAGGC CACAGACTGC 60
CTGATTCTNN NGGACCGCTG TTCTCAAGGA CGGGTAAAGG GTCTCCTGGC CAAAATTTCC 120
CAAAGCTGTG AAGACAGAAA AGTGGTGAAC TATATCAGAA AAGTGCAGCA GGTTCCTGAA 180
GGCGCACCTT ACAATGGAAC TTAAGACTTG TATTACTTTC CCAAGAGGAA AGGATTTTTT 240
TCCCATCCCN NNTTGTATGA ATGGAGTTAT TTANGAAAAA ANGATATTTT TACACGAAAC 300
TTTGTAAGTG AAAGCTGCTT TTTCTTCCTT TTCCTTTCCT TTTACCTCCA TAAGGAATAG 360
GGAANGTAGG ACCAAGANAN AATTGAACTC CTTCCCATTT TCTAAATAAA GGTTTTGGGG 420
GAAA 424
```

(2) INFORMATION FOR SEQ ID NO: 3426:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 422
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04034
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3426:

```
GATCTCNGAG CTACAATACT CACTANATAT ANTTTTCCAA TCAAAATATN CTATTCTATA 60
TTCTAAGGGT TAATATGTGA TTATAGTGTC CACTTGCCAC CATTTTTTTA AATCAATGGA 120
CTTGAAAAGT ATTAATTTAG ATGGATGCGC AGATATACCC TCAGTTCAGT CATAGATTGG 180
AGTTTGCATA TAATANNNCN CCGGTATGTN GACACTATTC TAAATAGTTC TATTATGACT 240
GAAATTTAAT TAAATAAAAN NGGTTGTAAA ATGNATGTG TATGTGTATA TACNGTATGT 300
GTACTTTTTTA AAATAGGGTG TATGTCCCAA CCCTTTTTTA TACAGGTNTG AATTTAAAAA 360
TACCATGGTT ATATACATAT ACCTNGNNTT NGTCCTAAAA TAAAGGNTTT TNATGCACGC 420
NN 422
```

(2) INFORMATION FOR SEQ ID NO: 3427:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 408
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04035

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3427:

```

GATCTTTCCA CCTCAGCCTC CTGAGTGGCT GGGACTACAG GTGCATGCCA CCAAGCCTGG 60
CTAACTTTTT GTAGAGATAG GGTTTNNCCA TGCTGCCCAG GCTGGCTTAG AATTCCTGAA 120
TTCAAGTGAT TTGTCTGCCT CAGGCTCCCA AAGTGCTGGG ATTACAGGCA TGAGCCACAC 180
TGCACCCAGT CCATGCTACC CTTTTTATAT GAAACACCTA TTAACACGGT ACAACAACAC 240
TTCAAAACAT ATTATTTGAA TTTNGGCNTC TGATTTTTTA GTCANCAATC CATTANGGCA 300
AANACCTNGT TTTCCAAACT CAGATGTTCT CCAACTTACA CTAATGTNTG GTTTTTTTGG 360
ACTTNGGTGN GGGGAAAAAN TTAACNNGT TTTNNTTTN TTATCAAA 408

```

(2) INFORMATION FOR SEQ ID NO: 3428:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 378
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04036

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3428:

```

GATCTTAGCT TCTTTAATCA GACTTTGTGA CTAAAAGTT TGGGGGTTTT CTTTGAAAGT 60
TTCCAGCCCT ATTCAGAAAG CAACTCTTGG CTGTGTGCAT TTTTCAACTC CAAGCAGCCC 120
AGGGGTAAGT AAACAAAGTA TGGATGAAGG TCAGATTTTN TTGTCANNNT CTGAGAAACC 180
TGGCAGCCTG CTGTTAACAA CACAGGCCAG TATTGGGTTT TATTGAATTT GGTATGTGAC 240
CAAGGTCGGC CTAAAGGATG GCGCAGGTCC TGGGCAGGAA AGAATTTTTC CTTTATCACA 300
TAACTGTAAT ATTTGGTTGC TCAGCATAAG TNATGGAAGC AACCACCTAA TTTCTAATAA 360
ANTTGTGTTA ACCTCAAA 378

```

(2) INFORMATION FOR SEQ ID NO: 3429:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 376
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04037

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3429:

```

GATCACAACA CCAGTACCAG CACGAAGAGC CTCCTCCCGA AAGAGTCTCG ACTGGACACC 60
TTCTGGGACT AGCAGTGAAT CGGGACACAA ACCACCCACC CCATTGGGAG AAAAACCAG 120
ACGCCAGGAA AAGAAGAAAC AACAAAGGCA GGAGAACAGC CACTTTCAGA CTTGAAAATG 180
ACAAAACCCT CAGTTGAGCC TGAGCCCCCG GCGCGGGGGC TGCTACACTA CAGGACACCC 240

```

AGCATCGGCT TTGACTGCAG ACTGTTTACC CACACGAGCC CTGTGCTTTT GGTGTAAATA 300
 ATGTACAATT TGTGGATGTC ATTGAATCTA GAGGACTTTC CCCTTTTTAT ATTTGTATTA 360
 ACTTTAACTT ATTAAA 376

(2) INFORMATION FOR SEQ ID NO: 3430:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 368
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04039

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3430:

GATCAAGCTT GTGACTTGA CCGTTTTTAT ATTACTTTTG TAAGTATTCT TGTCCACATT 60
 CTACTTCAGC TTTGGATGTG GTTACCGAGT ATCTGTAACC CTTGAATTTT TAGACAGTAT 120
 TGCCACCTCT GGCCAAATAT GCACTTTCCC TAGAAAGCCA TATTCCAGCA GTGAAACTTG 180
 TGCTATAGTG TATACCACCT GTACATACNN NGTATAGGCC ATCTGTAAAT ATCCCAGNGA 240
 NCAATCACTA TTCTTAAGCA CTTTGGAAAT ATNNCTATGT AANTNATTGT AAACCTTTTTC 300
 AATGGTTGGG ACAATGGCAA TAGGACAAAA CGGGTTACTA AGGTGNAATT GNCCAAAAAA 360
 TTTTTTAN 368

(2) INFORMATION FOR SEQ ID NO: 3431:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 374
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04040

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3431:

GATCAATCTC AATTCCTTTT CATGCCCTCC TGCATTGCTG CTGCGTGGGT ATTTGTCTCC 60
 TTAGCCATCA GGTACAGTTT AACTACAAT GTAAGCTATA GGTGGAGCAT CAGCAGTGAG 120
 TGAGGCCATT CTTTCATCCTT AGGATGTGGC AATGAAATNN TGGTGCAAGT TCCTTTCTCT 180
 TTTGTGAATC TTTCCCCCA TTTCTGTTT ACATGTAACC CAACAAAATG CAATTTCTAG 240
 NGCCTTCTGT CCAATCAGTT CTTTCCTCTG AGTGAGACGT ACTTGGCTAC AGATTTCTGC 300
 CTTGTTTTC GACATTNNTC CCATTCACAC AGNTATTTAN GGGGCTAATN AANNGGANAA 360
 ATAAGGCTTA CAAA 374

(2) INFORMATION FOR SEQ ID NO: 3432:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 369
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04041

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3432:

GATCCTGGAG AACCTAAGAC TCCAAAAGCG TGGTACTGGA GGAGTGGACA CTGCTGCCAC 60


```

AGGCGGTGTC TTTAATATTN CTAATTTGGA CCGACTAGGC AAATCANAGG TGGAGCTGGT 120
GCAACTGGTC ATCGATGGAG TAAACTATTT GATTGATTGT NAACGGCGTC TGGAGAGAGG 180
CCAGGATATC CGCATCCCCA CACCTGTCAT CCACACCAGG CATTAACTCC CCATCGNCCA 240
GCTGATGACT CAAGATTCCA AGGAGTTCTG CTCATTCTAA TGGTGGGCCG TTCTACTTGN 300
TCTGGACCTG NCCTNGNATC CCCNTNGNCC TNTNNTTCT TAGTTAAAGA CTTNGTTAGC 360
TGATGNAAA 369

```

(2) INFORMATION FOR SEQ ID NO: 3433:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 358
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04042

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3433:

```

GATCGTGGGG TTGTTGGCAG AGGGCAACCC TGGGCCCCAC ACCGTGTGGA CAGGCAGACA 60
CCAGATTGTC CAGGAGCAGG AGCTGCTGGG ACTGCGCTGG CCCCCGACCT AGTGGGCCTT 120
CTCCTGGCTG CTGAGATGTC GTCTGTGACT GGCCTGGCTG GAGGGGGAGT GTTGACAACC 180
CAAAGCTGTT CTCCAGTCTG GGGAGGGAGA GGCAGGGTCC CCAATGTCCG AGCTGNATCT 240
GGACGCTGCT CTTAAAGGAC CTCCTGGGGN AGGGGAAGCG GTAGGNTCTG GACTGGGNAA 300
GATGCTGTAT GACCTCCCTG AAGNACCCGT GACTTCCCCA TGNTTTACCC TTTTGTGN 358

```

(2) INFORMATION FOR SEQ ID NO: 3434:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 354
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04044

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3434:

```

GATCTAGAAA GCAACTTGGA AGTGTAAGA GTCACCTTCA TTTTCTGTAA CTCAATCAAG 60
ACTGGTGGGT CCATGGCCCT GTGTTAGTTC ATGCATTGAG TTGAGTCCCA AATGAAAGTT 120
TCATCTCCCG AAATGCAGTT CCTTAGATGC CCATCTGGAC GTGATGCCGC GCCTGCCATG 180
TAAGAAGGTG CAATCCTAGA TAACACAGCT AGCCAGATAG AAGACACTTT TTTCTCCAAA 240
ATGATGCCTT GGGGTGGGGA GTGGTAGGGG GAAGAGCTCC CACCCTAAGG GGCACACACT 300
GAGTTGCTTA TGCCACTTCC TTGTTCAAAA TAAAGTAACT GCCTTAATCT TAAA 354

```

(2) INFORMATION FOR SEQ ID NO: 3435:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 354
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04045

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3435:

```

GATCATTAAAT GAGGAGCTGA TGGCCTCCCT GGACCAGCCA ACACAGACAN TGGTGATGCA 60
CCGCACTGAG CCCACTGCCC AGCAGAACCT GGCTCTGCAG CTGGCCGAGA AGCTGGGCAG 120
CCTGGTGGAG AACAAACGAAC GGNTGTTTGA CCACAAGCAG GGCACCTACG GGGGCTACTT 180
CCGAGACCAG AAGGACGGCT ACCGCAAAAA CGAGGGCTAC ATGCGCCGCG GTGGCTACCG 240
NCAGCAGCAG TNTCAGACGG CCTACTGAGC TCTCCACTCT GTTTCCCGCC TGGGCCATCC 300
AACCTTGAAG TCCTAAACCA CACCTCAGTC ACTAAAGGTC TGTTTAAAGT TAAA 354

```

(2) INFORMATION FOR SEQ ID NO: 3436:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 350
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04046

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3436:

```

GATCTAATTT ATTTATTTAT TGCCTGGCCG GTGACTCGGG GGAGGAGGCG ACCCTGTCAT 60
CTGTCCCACC TGCTGCTGCC CCTTGGAGCA GCCTGCACCT NCTCTCCTCC CATCCGGCAA 120
CAGTNTGAAA GTACGTGGAG GACGGGACCG GAAGACGAGA GAGGGCTGGA CATCCTGCCC 180
ACCGTNTCCC AGCCAGGGCA GGNGAGGGGA CCATGGCCCG NANGTCAAGG GGCCCCGATG 240
TGACACAGCTG CCACAGGGAG GGAGNTCTTG GGGAGATGGG CANTCAGGTG GCCCCGTCTT 300
GGTNGAGTGC ACANANTTGC GCGNACANAT CGGGGTTTTT CCTGGNTTTN 350

```

(2) INFORMATION FOR SEQ ID NO: 3437:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 348
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04047

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3437:

```

GATCTTGAAT CTCTTCTTT GTTCTGTTTG TTTAGTTAGT ATCATCTGGT AAAATAGTTA 60
AAAAACAACA AAAAAGTCTG TATCTGTTTC TAGCATGTGC TGCATTGACT CTATTAATCA 120
CATTTCAAAT TCACCTACA TTCCTCTCCT CTTCCTAGC CTCTCTGAAG GTGTCCTGGC 180
CAGCCCTGGA GAAGCACTGG TGTCTGCAGC ACCCCTCAGT TCCTGTGCCT CAGCCCACAG 240
GCCACANTGA TAATGGTCTG TTTAGCACTT CTGTATTTAT TGTAAGAATG NTTATAATGA 300
AGATACACAC TATANCTACA AGAAATTATA AATGTTTTTC ACATCAA 348

```

(2) INFORMATION FOR SEQ ID NO: 3438:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 347
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04048

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3438:

```

GATCTGAGCC ACCCTCCCCG CACAGCCCTG CACCCCGCCC CTAGGGTTGG CAGNCTCANT 60
TGGCCCCCTGG CAGAGGAACA AGGACACAGA CATTCCCTCA GTGTGGGGGG CAGGGGACAC 120
AGGGAGAGGA TGGTTGTCCC TGGGGAGGGC CCTCTGGCCC CAGGCAACCT TAGCCCCCTCA 180
GAACAGGGAG TCCCAGGACC CAGGGAGAGT NTGGGGACAG GACAGCCTGT TTCTTNTAGC 240
TTCTTGGGGT GGGAGGCACA GGGGCAAAGC ANTACCCAG GGAAANTGGG AGGTGGTGCT 300
GGTGCTCTCT CCAGGNCCAC CATGCTGGGA GAGGCGGCCA GAGCTTN 347

```

(2) INFORMATION FOR SEQ ID NO: 3439:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 346
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04049

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3439:

```

GATCTTCCCT GGNGGCCTTC GGCTGCNTGC NTGCCTGAGG TCCCNGCTGC CAGTCCCGGG 60
CCCTGGAGAG CAGATGCTGT CTTGTNATGT ACAGGAGGAC CTTTAAAAA AATCAAGTTT 120
CTATTTTTTN CTGGTAGTCC GCATACCCAT ACCCTCTGTT TTTNAAAGGC AAAGGCCAAT 180
NAGTCCCCAT TTGTAGCATG GCACCAGGGT CTTAGGCCTA GTCCTCTCAT TCCTCCCAAC 240
CTCCGAGATG GTCAGTGTGT CATGGGAAGC CCACCCCCAG CTCTGCCAGT GCTCTCTGGG 300
CTGGNTCCN AGTCAGTGGT GGCCACGATG CGGTACAGGG CATCCN 346

```

(2) INFORMATION FOR SEQ ID NO: 3440:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 343
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04050

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3440:

```

GATCCATGTG ATTATTAAAA TGACTGTAGC TGAGAGCTCT AATTNCCCTG TCTTGAAACT 60
GTATAAGANC TCATGTGATT AAGTTCACAG TTTATTGTTT GTNTGTTTAG TATTTNAGAA 120
ATATAACGAG ACTACTAATT AACTAATGTC TNTNATTTAT NATATTATGA TAAAGTAAAA 180
NTTTCACCTG CATTAAGTCT AAAGTGAAG GGTAATTACT GGGNGGNGAN TGAGCAGCTT 240
TGACTTTGAC AGGCGGTTTG TGCAGGAAAG CACAGTGCCG TGTTGTTTAC AGCTTTTCTA 300
GAGCAGCTGT GCGNCCAGGG TAGAGGAGTG TNGAAATTCA TTN 343

```

(2) INFORMATION FOR SEQ ID NO: 3441:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 340
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04051

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3441:

```

GATCTGCTCA GAAAGGAAGA GGCAGGCGCC AGGGGGAACC CCCTTCGTGT TTTGTAACCC 60
TCCCTTTNAG GTGAAGCCCT TTTTCTTGCT AAAACCGGCA ATTCTCCGGT TAGAAATNTT 120
ACTTGGTGTT TTTTGGTTTT GTGAAACGGC CGTCCCAAAG CTGGCTGGAT TCCTAGAAGA 180
GTCTGTGTTG AAGGCATCTT TCAAGCCCTC GCTCTGGTTC TNAGGGCAGC ATTTTCCAGG 240
CGGGTTTGTT TTGCATTTCT TGGAGCCTCT CCGNGNAGCA ACCAGACGGG AGATTTTAAT 300
TTTAAGCTGT TCATGCTGGG NCTGACAGCC TGCAGGGTTN 340

```

(2) INFORMATION FOR SEQ ID NO: 3442:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 339
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04052

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3442:

```

GATCCTTGGG CTGGCCTAGA ACCAGTATCT GTAGTGATA TAAGCCAACA ATACAGCAAT 60
ACTCAAACAT TCACAGGCAA AAAAGGAAGA TACTTTTNTT AACATTTCTG AAATTCAACT 120
GGAAGCTTCA TGTGTCAGGA ACATCTTGGA CAAAACCTTA NGTTGTGTTG ATATAAATTT 180
ACCCAAAGAT GATGNCTTTG ATTGGNTAAT TAGTAAGGTC TTTTGTGTTAT TTNCAATCGT 240
ATCAGGTATT GTTGATATTA GAGAAAAANG TAGGATAACT TGCAACATTT AGCTCTGGAA 300
GTACCTACCA CATTTTNGAG ATTTACCGTT TCCATATTN 339

```

(2) INFORMATION FOR SEQ ID NO: 3443:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 339
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04053

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3443:

```

GATCTGCCGT TNATGTTGCT TTCTCCTTTG TCCTCTTGGA CTTGAGGGCA TTGTGAAAAG 60
CTTTGCTGTG ATTTAAAAAT GCCAGCAATT TTAATCTAGC AGTGTTGAAG CTGGGAATTT 120
TTTGGCGCAA TCCATGTAGC AGTGACCCAG GCTTGGGAGC CAGAAACAAG TGTGACCTGG 180
GATTTNATTT AACACAACCTG TTGCCAAGA GTTGGCTTTG TTTATTTGGT TTTGGCGGGG 240
AGAGGAGTGG TATTTNATGC TTTCTGTGGA CANTGTAACC CTAAACACAN CANGTATTTT 300
AANTGCCACC TACATAANTA AACCATANGC NTATTGAAA 339

```

(2) INFORMATION FOR SEQ ID NO: 3444:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 339
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04054

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3444:

```

GATCTACATA AAAACTGCTA CATGNCAAAA ACCACACCTA AAGAAATTTT AAGAATTTGG 60
CACAGTTACT CACTTTGTGT AATCTGAAAT CTAGCTGCTG AATACGCTGA AGTAAATCCT 120
TGTTCACTGA AGTCTTTCAA TTGAGCTGGT TGAATACTTT GAAAAATGCT CAGTTCTAAC 180
TAATGAAATG GATTTCCCAG TAGGGGTTTC TGCATATCAC CTGTATAGTA GTTATATGCA 240
TATGTTTCTG TGCATGTTCT CTACACAATT GTAAGGTGNC ACTGTATTTA ACTGTTGCAC 300
TTGNCAACCT TTCAATAAAG CATATAAATG TTGGTTAAA 339

```

(2) INFORMATION FOR SEQ ID NO: 3445:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      334
(B) TYPE:        nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04055

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3445:

```

GATCAGCCTC TTCCTCTATA AACAATGACC AATTAGACGT TTCCGTAATT CCATGTATTA 60
TGTATAGTAC ACTCTATAAA TGTAATGTGA ATGCTTGTCT AAAAAGTGCA ATTTATTGTA 120
CATTGTCCCA ACAAATGTTT ACTTTTATAA TCGTTATGAA CTTGAATTGG ATTAGTATCT 180
TGTTTTTATG TGTGAATGAA GCCTTG TGTAATAAACAAT GCAACTGAGA AGGTAACAAG 240
GTGACTGTTT TTGTGAGCCA GTGATGTTTT CAATGCTTTG TGTTGCCCCCT TTGGCCCCCAT 300
TAAGCAGTAA TAAACATTTG TTCTGAAGTC CAAA 334

```

(2) INFORMATION FOR SEQ ID NO: 3446:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      334
(B) TYPE:        nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04056

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3446:

```

GATCCAAGAA GCGGGTCCCT GAGACGGGGG GTGGCTGCCC TCCCCAGACC ACCCCGGCAG 60
CCTGAGCAGN TCCAAAGCAC TGGCTTGGGG TCCGAGACCT TCAATGTAAA GCAGGCGGAA 120
TGGGGGGACA GGACAATTTT TCCCCCTCCA GGGGCTCCAG GACTCTCCCT GGGGGGCCCA 180
CCTCTTGCCC CCTAACCTCT TTCCCCCTTT TCTGCCCCCG TGGGGAGGAG CCCCTTGTA 240
CTGCTCCGTG CCAACACAT GCCCTCTCTG TACATCTTTT GGTAAATNAT GAGAAATAAA 300
GGAAGTGGAC GCAAAGTGGA TGCGGCAGCA GAAA 334

```

(2) INFORMATION FOR SEQ ID NO: 3447:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      332
(B) TYPE:        nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04057

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3447:

```

GATCCAATCT CAGTGTCTAA CTCATCATCC CAGATTATTC TGAAGTGGAA ACCACCCTCC 60
GACCCCAATG GCAACATCAC CCACTACCTG GTTTTCTGGG AGAGGCAGGC GGAAGACAGT 120
GAGCTGTTTC AGCTGGATTA TTGCCTCAAA GGGCGAGTCC AGTCATCAGC TCCGCTGTAA 180
GCTGTTGGCC CTGCATTCAA GTAACCAGAA CCACCCGTGA GAGCTGCCAC CAGGTANTGT 240
CACTCGAAGC TTCCTTTTTT TTTTTTTTNA ATTCCGGAAA GTTTAANTCT GTANTCCAG 300
GGGNCCATTT AAANANGGTT TTTTTTTGTA AN 332

```

(2) INFORMATION FOR SEQ ID NO: 3448:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      332
(B) TYPE:        nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04058

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3448:

```

GATCCAAAAA AAGCTNGAAG CCTACATTTT CCAGAGCCCC TTTCAGCTTG AATTCCAAAT 60
GTGACTTAGC TTCCTCTATG CAGATGTACC TACTTGAAAC TGGGAAGGCC AAATNAGATA 120
GAGGNAATNT TTCTGCCAAC AAACAGCCAC AGAGCATTTT ATTTTCTAG AAGAGCAATA 180
ACAGAGACCC CAGGGTGTGG TGTGGCAGGA CGAGGAGCAT CCATTTTGCT GGNGGGGATT 240
GTGGCTAAAA TAATGNGGCT CTGGAGCCAG CAATNGGCAG CATCTTCATG ACTTTCAGN 300
TTCCAGGCTG TAAGCAGAGA TAGCATCTCT TN 332

```

(2) INFORMATION FOR SEQ ID NO: 3449:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      326
(B) TYPE:        nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04059

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3449:

```

GATCCACTAT ATGCCTCAGC ACATGGAACC TTAATGACCA AAGTGAAGAG CAGATTATTC 60
ATACGGTGTA ATAAGCATCT GGAATGGACC CATCCGTGTA CTTCAATCAA ATGTGTAAAT 120
GTCATATTCA TTCAGATTTA TAAAGCTAGT AGTGTATAGT CAGAAACAGA ATCAAAGTTA 180
GATATACATT TTAAATATT TACTGCATAT GAGGCTTTCT GTTAATTTTT TAATGTGAAT 240
AATTTATATA TTGCACATTC TAGGGAATAA TATTGATTGT ATGNCTACTG TGCTGCATTA 300
AGAAAATAAA ATTCCTATAT NCCAAA 326

```

(2) INFORMATION FOR SEQ ID NO: 3450:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      329
(B) TYPE:        nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04060

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3450:

```

GATCAGAAAA ACTGAAGATG GAAGTTTTGG CCGGTGCTCA TTAGACATGA GTCCTCACTC 60
TGTNTCCTGA GCCCGTTTCA TTCTTCCAAC CTCCCTGCCC CCACACACTT ATCCCAGACA 120
CAACACCATG TGGTCTGGAG GTCCCAGCCC CCACCCTAAA AAGGTTATCC CNGAGAACTC 180
CACCAGACTT GGGAGCCCAA GTGCAGTGCC TGGNGCTGCT CCCATCTGCC GGCCCCNTTC 240
TTTCCTNGCA ATTGGTTTGN ACTCACTGGG CTGTGCTCTN CCCTGTTTAC CCGATGNNNG 300
GGAAATAAAG GCCCTTTTGC CTCCTGAAA 329

```

(2) INFORMATION FOR SEQ ID NO: 3451:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 325
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04061

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3451:

```

GATCTGGCGC TTCTACTTTG AGGGCTTCTT TGACCTCATT GCTGTGGTAN GCCGGCGTAG 60
TCCAGACCAT CCTATACTGT GACTTCTTCT ACTTGACAT TACAAAAGTA CTCAAGGGAA 120
AGAAGCTCAG TTTGCCAGCA TAAGTGCCAA AGGCCATCAC CAGCATCTGT CCTTCAGGGT 180
GCTCGGACAG ANTTNTTACC ACAGCAANGG CATAAGGTGC TTTATACGGA AANTCAGNAA 240
CTTAACTCTT TTGTTGCAGN TAGTCATCAG TGGCTCTGTA AAAACGGAGG GGGAAAGNGN 300
CNGGAGGTTT CTGTTTAATG CATCN 325

```

(2) INFORMATION FOR SEQ ID NO: 3452:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 324
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04062

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3452:

```

GATCTGATTT TATGTTGTA ACTTTCTGTA AAGAAAGACA CAAGGACTTT TCAAAGACAG 60
TTTATATCTT TCCAAGGCAG GAAGCTTTGC ATTTGCAATC TTAGTGTTGT GTCCCTTTCT 120
GATTTTCAAA TACATCACAC CTGCCTTCTT GTTTTGGGAG CAAAGATGTA ATTTCAATTC 180
CCCTTGCTAC CGTCCTTATT TAAATNATTT CCATTCTAAG AGATTTTNGT NATTTNNNTA 240
AATGTAATCT GAGCACTTTN TNGTATTCTA AAAGATAGAT GATATCAGAT AAATATGTTG 300
TACATTTTGA TTAAATTAT TTTN 324

```

(2) INFORMATION FOR SEQ ID NO: 3453:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 339
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04063

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3453:

```

GATCTGGAAG ACAGACGTAC AGCTTGGAGG GCAGGGGGAC TCTAAGGCAA GGAGATTTAC 60
AGTTGGGAAG GAGGCAGTGG CAGAGGGGTG AGGGACAGGG GCCCTTAAGT CCAGCGAGGA 120
AAGCTCNNTG TGGGCCCCGCT CTACGCTCCG TTTGGGGTGA CCTGGAACGC CTCTTCTCCC 180
AGCTCCCCTC AGCCATCAGC AGCCTCTTGT CAAGCTTCTG CCTCGCCCCA GTCTATCCCC 240
AACCCCAAT CAAGACCACC TTTCTTCACG GTCATAATTT ATTCTTTGTT CCTTTTCTTT 300
TTTGTAAGAA ACATTACAAA AAACCAGTGC AAAACCAAAA 339

```

(2) INFORMATION FOR SEQ ID NO: 3454:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      317
(B) TYPE:        nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04064

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3454:

```

GATCTCAATG CTGTCTGGGG ACCCTGAAGA GTTTTNTNAC CTGTTCAGTC TCATCTAACC 60
TTCCAATGTN TGATGTTTCT GCCAAATTC TGCCTGATTC TGGGTCCGTC CTGACCTCCA 120
AAGGTCAGNT TGGTGCTTGA GGTCTCCNTG CTCTTGGTGG CAGTGGTAGC AGCAACAGCA 180
GCAGCAGCAG CAGCAGCAGC AGCAGAGACC TNTCCACTTT CCCTTAGCCC TNTGNTGGGT 240
AGAGGGAAC TAAAGGACTT CCTCCAGNNG CNTTTAATNT GGGAAATGGGT AAGAAGGTTG 300
NGCTCCNCTG TTNGTTN 317

```

(2) INFORMATION FOR SEQ ID NO: 3455:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      315
(B) TYPE:        nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04065

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3455:

```

GATCCTCAAA AAACCCAAAA ACACCATTCT CTAATAGTCA TGACAAATGG CTTCAGTATG 60
GCTTGTTTTT NATTTNCCAG ATGGCTTTTN CTCTTATTTT TNGAAGCCCC AGTCTTTGAT 120
TTTACAGGTA ACTTTCAAAA CATCATGATG CTGCCAAATG TACTTTTGTA AACTTAAACA 180
TTATGATTCC TGTATTATTT CAGTGAGAGC TACAGTGTGA TATTNCAGAG TCTATTAAAT 240
AAAAATGTGA GTTTGAATTA CACCATCTGT GCCAATTACA AAGCAATTAA AGGATTTATN 300
TNTNATGAAA AAAAN 315

```

(2) INFORMATION FOR SEQ ID NO: 3456:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      312
(B) TYPE:        nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04066

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3456:

GATCTGAGGC TGTGTCTCTG CCTTGTTTTT AGAGGACTTC AGCGTCCAAG ACTGGGGCCC 60
 ACCNTTNTCA CCAGCACTAA ATGCACTAAC AAGGACTCCA GACCTGCAGC CCCAGACCCG 120
 CCGTAGTATA AGCCTAACAA GCAACANGTA GCACCTTAGT CTTTGTTCCTA GGAGAGCTGA 180
 GCAAGCTGGT GAAACCACTC TCCTTCCTTT AAACANCGTT TCAACCANCC TTTNCNTGGA 240
 GCCAACNTGT AAAAAGTGGG TTGATTGCTG ACAGNATGGT CTTCTTCCC TGGATTNAG 300
 ACATACCACT TN 312

(2) INFORMATION FOR SEQ ID NO: 3457:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 309
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS04067
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3457:

GATCTTTCCG GGGCCTACAG GCGTGTAAGA CAGCTTGGTC TGGTCTGTGC AGAAGTGGGG 60
 AGTGATGGGC AGGTTCCGCA GCCTAACATT GTTCAGGCGC ATGGCCCCTG CGGTGTGTAC 120
 ACGAACTCGG CTTCTTTTGT CCTAGGTACG CCAAGGGCAG GTTTCTGGAG ACTCCCTTGT 180
 GCCC GGATG GCAAGGGCAC CGGGCTGGCG TTTCCACATC TGTCTTCATT AGCAGANNAG 240
 TGATGATGGA TTTTATTTC CTCACACTCC AGTTTGTAAT AAAATGCCAA ATTCTGTCAG 300
 CTATCCAAA 309

(2) INFORMATION FOR SEQ ID NO: 3458:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 309
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS04068
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3458:

GATCAGCACC ATTTGTGGTA TGTTCCGTGA TGAGCGTTTA GTGAGCCTNN TGGCTGCAGA 60
 GCACTATGAA ATCATGGTAC GTAGTCCCCG GCACCTGTCTG TTATTCCTAT ATCCTCCTGC 120
 AACTGTGGTT TGAAACTGCG CATTCTCTAG TAGTATATAT CGTGCCTGTC TTCAAAAACA 180
 TTTCCCTTNN GTATACTCAT NCCCCCAGG CATTGGGGTA GTGTCAGTCG GACTGCACAG 240
 GGAACACGGT TTCCAGTGGC TTTGGCCCCCT ACTCGGGAAA CGTCTGCCTG TTCTCGATNG 300
 TGATGGGGN 309

(2) INFORMATION FOR SEQ ID NO: 3459:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 308
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS04069
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3459:

```

GATCTAGCTG GTCACGACGA TGTTTTTCACC AAGGTCACAG GAGCATTGCG TCGCTGATGG 60
GGTTGAAGTT TGGTTTGGTT CTTGTTTCAG CCCAATATGT AGAGAACATT TGAAACAGTC 120
TGCACCTTTN ATACGGTATT GCATTTCCAA AGCCACCAAT CCATTTTNTG GATTTAATGT 180
GTCTGTGGCT TAATAATCAT AGTAACAACA ATAATACCTT TTTNTCCATT TTGCTTGCAG 240
GAAACATACC TTAAGTTTTT TTTGTTTTGT TTTTGTFFFF TTGTTTTTNG TTTTCCTTA 300
TGANGAAA 308

```

(2) INFORMATION FOR SEQ ID NO: 3460:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      351
(B) TYPE:        nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04070

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3460:

```

GATCAAGCAG AGAAANTAAT TAATTTTCATG GGAATAAATG AACTAGTGAG GATAATATTT 60
NCATAATNTT TNATTTGAAA TTTTGCTGAT TCTTTAAATG TCTTGTTTCC CAGATTTTCAG 120
GAAACTTTTT TCCTTTTAAG CTATCCACAG CTTACAGCAA TTTGATAAAA TATACTTTTG 180
TGNACAAAAA TTGAGACATT TACATTTCTT CCCTATGTGG TCGCTCCAGN NCTTGGAAGA 240
CTATTCATGG AGTATTTNTA TTGTATGGTA ATATAGTTAT TGCACAAGTT CANTAAAANT 300
CTGCTCTNTG TATAGCANGG NNNGGGTTGG GGGGGCGGGN GGNGGGGGGG N 351

```

(2) INFORMATION FOR SEQ ID NO: 3461:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      305
(B) TYPE:        nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04071

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3461:

```

GATCAGATAG TTTCTGAGG CTAAAATGCC CCAACATGTA AAAGACTGCN ACAAGGGTTA 60
ATGAGCCAGG AACTGCGGAT GGTAACCTAC ATCTCTATAA TTACCATAGG ATATATATGA 120
GTACCATAGG ATTCTTTTGC ATAAGTGTAG AAAGTACAGA CAACACCCTC CCGTGTGTTG 180
TATTAGAGTT TTTANTGTTG ATTGGAAAAT GGGAGATTCA CTGTGTGCCA TTCTTGGTAT 240
ACGTTGANGA AATTACATCA CTAGTACACA CNGNGGNNT TCCACATTCA CACGCCCCAG 300
CTCTN 305

```

(2) INFORMATION FOR SEQ ID NO: 3462:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      303
(B) TYPE:        nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04072

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3462:

GATCAAGCTA CAGATATGGG ATACAGCAGG CCAGGAGCGA TTTCACACCA TCACAACCTC 60
 CTACTACAGA GGCGCAATGG GTATCATGCT AGTATATGAC ATCACCAATG GTAAAAGTTT 120
 TGA AAAACATC AGCAAAATGGC TTAGAAACAT AGATGAGCAT GCCAATGAAG ATGTGGAAAG 180
 AATGTTACTA GGAAACAAGT GTGATATGGA CGACAANNGT GTTGTACCTA AAGGAAAAGG 240
 TGANCAGATT GCNNGGGAGC ATGGTATTAG GTTTTTTTGAG ACTAGTGCAA ANGCNGGTAT 300
 AAN 303

(2) INFORMATION FOR SEQ ID NO: 3463:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 303
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04073

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3463:

GATCCGGTCA TACATCCACA TCAGGCCTGG CCAGCTGGAT GTTCTTAAAN AGTTCCACAA 60
 GCAGATTACT GCACGGGCAA CAAAGGATGG GACTTTTGTG ATTTCAAAGA CATGATGTAT 120
 GGGGATTAGA AAGAACTCAA GACACTCCTG CTTGATACAG AACAAAAAGA GCTTAACAGG 180
 ACCAACAGGG CTTAAGCCCA GACTTGACGT AACAGAAATG TGCCAATAGG TAATAGGTAA 240
 TTTTNCCTTC TCTGACTTGT TTTGTTTTCT TGAAATAACA CTGTTGTGTG GCTAGAAAGG 300
 AAA 303

(2) INFORMATION FOR SEQ ID NO: 3464:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 348
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04074

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3464:

GATCTACTTT CACATTCTCA AGTTTTTNTC ATCTGCATTA GAGGTGCCCA GTAGGTTCCC 60
 AGGTTCCAGC GTGCCCCCTCC CTCAGACACA CGGACACAAT CAGCCGAGAA GTTCCTGGTC 120
 TGAATCACGA GAATGTGGAG GGGTGGGGGG TGTCAGTGGG AAGGCATAAG GCTGAGCTGA 180
 GACCAGTTGC TGGTGAAACT GGGCCAATCT GGGGAGGGGA ACATCCTTGC CAGGGAGTTT 240
 CTGAGGGTCT GCTTTGTTTA CCTTTCGTGC GGTGGATTCT TTTTAACTCC GTCTACCTGG 300
 CGTTTTGTGA GAAATGTCAG ATAGGAAAAT AAAAACCATT TGAGTAAA 348

(2) INFORMATION FOR SEQ ID NO: 3465:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 299
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04075

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3465:

GATCTGACCT GGTGAGATTA TTTCTNATGA CCTCATCAAA AAATAAACAN TTCCCAATGT 60
 TCCAGGTGAG GGCTTTGAAA GGCCTTCCAA ACAGCTCCGT CGCCCCTAGC AACTCCACCA 120
 TTGGGCACTG CCATGCAGAG ACGTGGCTTG GCCCAGAATG GCCTGTGCCA TAGCAACTGG 180
 AGGCGATGGG GCAATGACAG ATACANCAGA ACANTGCTTT TGAGGCANGC TTCTTCCCTN 240
 NGGGTNGGT TGTNATGGCC NTGGCTTTTT NAGTTGGGNG NCATTTANAT TAAGGTTN 299

(2) INFORMATION FOR SEQ ID NO: 3466:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 415
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04076

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3466:

GATCTACGTN ATCTCAGGGC AGTTCCTACA GATGAAGCAA GAGCTTTTNC AGAAAAGAAT 60
 GGTTTGTNAT TCATTGAAAC TTCGGCCCTA GACTCTACAA ATGTAGAAGC TGCTTTTNAG 120
 ACAATTTTAA CAGAGATTTA CCGCATTGTT TCTCAGAAGC AAATGTCAGA CAGACGCGAA 180
 AATGACATGT CTCCAAGCAA CAATGTGGTT CCTATTCTATG TTCCACCAAC CACTGAAAAC 240
 ANGCCAAAGG TGCAGTGCTG TCAGAACATC TAAGGCATTT NTNTTCTCCC CTAGAAGGCT 300
 GTGTATAGTC CATTTCCCAG GTNTGNGGAT TTAAATATAT TNGTAATNCT NGGTGTCACT 360
 TTTGGTGTTC TATNACTTCA TACTTATGGN TTTTTCATG NCCTAAGNCT TTTTN 415

(2) INFORMATION FOR SEQ ID NO: 3467:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 295
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04077

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3467:

GATCCACCTT CTTCTTAGG TCCCCTCCTC CATCAGCAAA GGAGCACTTC TCTAATCATG 60
 CCTTCCGAA GACTGGCTGG GAGAAGGTTT AAAAACAAAA AATCCAGGAG TAAGAGCCTT 120
 AGGTCAGTTT GAAATTGGAG ACAAAGTGTG TGGCAAAGGG TGCGAGAGGG AGCTTGTGCT 180
 CAGGAGTCCA GCCGTCCAGC CTCGGGGTGT AGGTTTCTGA GGTGTGCCAT TGGGGCCTCA 240
 GNCTTCTCTG GTGACAGAGG CTCAGCTGTG GCCACCAACA CACAACCACA CACAN 295

(2) INFORMATION FOR SEQ ID NO: 3468:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 292
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04078

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3468:

GATCAAAGCA CTGGGCTTGT CCAGGCNCAT AATAAATGCT CCATTGAANG TACTATTCTN 60

GTTTTCCACT GCTGTGGAAA CCTCCTTGCT ACTATAGCGT CTTATGTATG GTTTAAAGGA 120
 AATTTATCAG GTGAGAGAGA TGAGCAACGT TGTCTTTNCT CTCAAAGCTG TAATGTGGGT 180
 TTNGTTTTAC TGTTTATTG TTTGTNGTTG TATCCTTTTC TCCTNGTNAN TTGCCCTTCA 240
 GAATGCACTT GGGAAAGGCT GGTTCCCTAG NNNCCTGGTT TGTGTCTNTT NN 292

(2) INFORMATION FOR SEQ ID NO: 3469:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 291
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04079

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3469:

GATCTCTTAA GAGATGATGG ACTTATGTAT GTTACAAGAC TTCGAAATGT TGGAGTCCAA 60
 GTNGTTCATG AACATATTGA GGATGGAATT CATGGAGCTT TATCATTCAT GACTTCACCA 120
 TTTTATTTAC GTCTAGGTCT TAGGATAAGA GATATGTATG TAAGTNGGCT GGATAAGANT 180
 TTATAAATAT GTGATGTGTA TGTATAGCCC TTACATAGTG GATTGTAATT NGTGATATTT 240
 TGTGGTTTTG GAGCAAAGAN CAATGTCATT TGAGTTATCT AAATCTACAT N 291

(2) INFORMATION FOR SEQ ID NO: 3470:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 290
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04080

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3470:

GATCTTTTGA TTCCTCTTGG GCTGAAGCAG ACCAAGTTCC CCCCAGGCAC CCCAGTTGTG 60
 GGGGAGCCTG TATTTTTTTT AACAACATCC CCATTCCCCA CCTGGTCCTC CCNCTTCCCA 120
 TGCTGCCAAC TTCTAACCGC AATAGTGACT CTGTGCTTGT NTGTTTAGTT CTGTGTATAA 180
 ATGGAATGTT GTGGAGATGA CCCCTCCCTG TGCCGGCTGG TTCCTCTCCC TTTTCCCCTG 240
 GTCACGGCTA CTCATGGAAG CAGGACCAGT AAAGGGACCT TCGATTAAAA 290

(2) INFORMATION FOR SEQ ID NO: 3471:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 287
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04081

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3471:

GATCCAAAGT CCTGTGGTTA ACGCCTTCAT TTATAGATGA GGCAGCTGAG GCCTGGGGAT 60
 GTGAACAACC TGCTCACAGT CCTCATTTAC TGGATTTGAC TTCAGCCAGG TGAAGTGGAA 120
 TGCCTTGGGG CGTGGAAGGG CATTAGGAGT GTTTCATTG ATATGTGAAT GCTCATAAAA 180
 AAATGTCAAG GAATGAAGAA CAGCANCTCT CAGTGGTGCC TGCATTTATA ATTATTTATG 240

TGAAAGTCAA ATTCATGTAC AGTAAATTTG TTATAAGAAT ATTCAAA

287

(2) INFORMATION FOR SEQ ID NO: 3472:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 287
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04082

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3472:

```
GATCCAAAGT GCAAGGNTTT GATTATAAAC ATAATTTCTT AGACTGAAAG TTTTGGAAA 60
AGATGCAGGG TCTGAGTCAG GCCTTCTGGT TATATTGTGC AGTTTCAAAA GAACTATTTA 120
ANACTCTTGA AAACATCATG AAATAAAAAA CATAGGGTGA AAATTGTATT TGTTAAAATA 180
CCTTAATAAT TTAATAATGAC CTGATTTCCT GGAAAATTTT ATTATTCAAA AGGTGGAGGC 240
ATTGTAAAAA GGAAATAGTG ATGTAAATAA ACATGTTCTC TTTCAAA 287
```

(2) INFORMATION FOR SEQ ID NO: 3473:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 278
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04083

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3473:

```
GATCTGTTTG TCACTGACAG ACTGTAGTAG TGTCTGTGTG CTGACTGATA GATAGACTAT 60
AGTAAAATTT GGGTGTGTCG TGACTAACGG TCTAGGGTCT GTAAGCTGAC AGTCTGCCTG 120
CTTTCTGATT GTATCCATTG AAGTGTATGT ACATTATGGT AATNCTCTGT CTATTAAATG 180
TGTCTAACAA AGGAAGGAAT TAAGCACTCC ACATGTTTTT TTTATAGGGG AGTTCGTGAC 240
ACTATGATTT TAAATAGATA TTTCTTATAT AANGGAAA 278
```

(2) INFORMATION FOR SEQ ID NO: 3474:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 278
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04084

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3474:

```
GATCCCAACA CTGAAGGGGT AGAAGGCCAG GGGGGCATGG AGAGTGCAGC TCCATTATAG 60
TGAAGAGCCA AACATATGTN AACTGTTTGC TGTGTGGAGG TGTTAGTTCT GCTGCCTACC 120
ATCTTCATCT CTAGCACCTC CCCTGCCAAG AGTCAACCAC TAAGCAATCC CACCCAAGCC 180
TGGATGCTTC TAGAGGGGCC CACTCCCAGC TGGGAGAGTN TAGGGGATAT GCTCACACCA 240
CATTAGCAGC AACCAATAAA AATGCTGGAA ACAAGAAA 278
```

(2) INFORMATION FOR SEQ ID NO: 3475:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 277
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04086
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3475:

```

GATCTTAAGT GTGTCATTTG AAACCCTGTG CGTTTGAAGT GGTGGAGACA GGACCTTTAT 60
CATATTCTGA GCTTTAAATA TATAAACNGG TAAATCATTC CATTTAATAA GACATAGCCC 120
AAGTCCCAGA ACGCGTTTTG AGAGTAACCA GAAACAGAGG TTATTTGTTC TGCTTTCTTT 180
TATCACTGCT ATTGGATGGG ATATCCCAA CAAGTGGATG TGCGCCCCAA TTCTATTTTC 240
CACTATTCAT TGATTAAAT AATTACAAA ACGCAAA 277
  
```

(2) INFORMATION FOR SEQ ID NO: 3476:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 273
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04087
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3476:

```

GATCTTTCCA AATACCCAAA TGTCCTGCA AGCCCGTTAA ATAATTCCCT ATGCTACCCT 60
TAATAACATA CAATGACCAC ATAGTGTGAG AACTTCCAAC AAGCCTCAAA GTCCCTTGAG 120
ACTCCCCAAT ACCTAATAAG GCATGCGAAA TGTTCTCATG AACTACCCCA CAACACGCCT 180
AAACTCAAA ACACCCAAA ATATNTCCTC CAATGTCCTG AAACATGAAC CCAAAAAGAG 240
ACCCACAATA AACTCGTGAC TTGTCCNTC AAA 273
  
```

(2) INFORMATION FOR SEQ ID NO: 3477:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 272
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04088
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3477:

```

GATCCTCTCN ACCCTCCTCT AGCCATCCCT TGGGGAAGGG TGGGGAGAAN TATAGGATAG 60
ACACTGGACA TGGCCCATTTG GAGCACNNGG GCCCCACTGG ACAACACTGA TTCCTGGAGA 120
GGTGGCTGCN CCCCAGCTT CTNTCTCCCT GTNACACACT GGACCCCACT GGCTGAGAAT 180
CTGGGGGTGA GNGGACAAG AAGGAGAGGA AAATNTTTC TTGTGCCTGC TCCTGTACTN 240
GTCCTCAGCT TGGGGNTTCT TCCTCCTCCA TN 272
  
```

(2) INFORMATION FOR SEQ ID NO: 3478:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 270
 (B) TYPE: nucleic acid

- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS04089
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3478:

```

GATCTTGATA TTNGGCCTCT TTGAAGAGAC AGCCCTGGCT GCTTTCCTNN CCTACTGCCC 60
TGGAATGGGT GTTNCTCTTA GGATGTATCC CCTCAAACCT ACCTGGTGGT TCTTTGCCTT 120
CCCCTACTCT CTTCTCATCT TCGTATATNA CGAAGCAGAA AACTCATCAT CAGGCGACGC 180
CCTGGCGGCT GGGTGGAGAG GGAAACCTAC TATNAGCCCC CCGTCCTGCA CGCCGTGGAG 240
CATCAGGCCA CACACTCTGC ATCCGACACN                                270

```

(2) INFORMATION FOR SEQ ID NO: 3479:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 267
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS04090
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3479:

```

GATCACCAAC AGGGAAAGAC ATCCTGGTTC TTTTGATGTG GTGCATGTGA AGGATGCCAA 60
TGGCAACAGC TTTGCCACGA GGCTTTCCAA CATTTTTGTC ATTGGCAATG GCAATAAACC 120
TTGATTTC CTGCCCAGGG GAAAGGGCAT TCGACTTACT GTTGCTGAAG AGAGAGATAA 180
GAGGCTGGCC ACCAAACAGA GCAGTGGCTA AATTGCAGTA GCAGCATATC TTTTTTCTT 240
TGCACAANTA AACAGTGAAT TCTCAA                                267

```

(2) INFORMATION FOR SEQ ID NO: 3480:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 263
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS04091
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3480:

```

GATCCCTGGA GTGCCTTGGT GTTTCAGCC CCTGCAGGAA GCAGAATGCA NCTTNTGAGG 60
CACCTCCAGC TGCCCCCGGC CGGGGGATGC GAGGCTCGGA GCACCCTTGC CCGGCTGTGA 120
TTGCTGCCAG GCACTGTTCA TCTCAGCTTT TCTGTCCCTT TGCTCCCGGC AAGCGCTTCT 180
GCTGAAAGTT CATATCTGGA GCCTGATGTC TTAACGAATA AAGGTCCCAT GCTCCACCCG 240
AGGACAGTTC TTCGTGCCTG AAA                                263

```

(2) INFORMATION FOR SEQ ID NO: 3481:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 257
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04092

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3481:

```
GATCGGGAAC AAATGNAATC TGTGGATGCA TCAAGCTATC GTCAGTCAAA CCCCTTTAAA 60
ATGTTGCTTT GGCTTTGTAA ATTTAAATAT GTAAGTGCTA TATAAGTCAG GAGCAGCTGT 120
CTTTTTAAAA TGTCTCGGCT AGCTAGACCA CAGATATCTT CTAGACATAT TGAACACATT 180
TAAGATTTGA GGGATATAAG GGAAAATNAT ATGAATGTGT ATTTTACTC AAAATAAAAG 240
TAACTGTTTA CGTTAAA 257
```

(2) INFORMATION FOR SEQ ID NO: 3482:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 255
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04093

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3482:

```
GATCTACATT TTGTACATAT TTATATAAAA TTTACCTTTA AGTATTTACT TTAAAAAATT 60
TAATGGCTTA ACTCGAAGCT GAAGACACAT ACTTCAACTG TCCTTATTGT CCATTAANCT 120
GATAATTTTN ATTTTCCTNG CTTTATAGA TTTNNTATA TAGGAATCAA GATTTANGAA 180
ATTTTGCATT AAAANTAGTG TACCAATGCT TCATATACGT TAGTTATTTG CTATTATGTA 240
GGGAAGAGGA TTGTN 255
```

(2) INFORMATION FOR SEQ ID NO: 3483:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 255
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04094

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3483:

```
GATCTGAAAT NAGAAATATC CAACATTGCA CGAGTATCTT TTTTTATNCC TCCACAGACT 60
CCGCCAGAGA CACCTAGTCC TGATGAAACG TCTGCTCCTT GTCCTAATAT TCATATCAAC 120
AGCACCATTG CTGGCATTCA CTTTTAAAA ATTATGTGGA AGTGGATAGG AGAACTGCAG 180
CTGTCAATAG CCTAGGGCTG AATTTTGTG AGNTAANTAA NATAAATCAT TCATCCTTTT 240
TTTTNGNTTT ATAAA 255
```

(2) INFORMATION FOR SEQ ID NO: 3484:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 253
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04095

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3484:

```

GATCTAGGTG GTTTGTAATT GTGCATTACT GACTGCATAT GTTTGTGTAT GTGTAAATGT 60
GGGCTCCCTG TTAAGTGGGG CTCATGGATA CGAGGCCTGA GGAAGTGTGG CTTGCTAGTC 120
TGTTACGTTA ACATGCTTTT CTAAAATTGC TTCACGTGTT AATTCATTTA CTCCTGCATT 180
CATTGACTGT TTTTGTCTT TTCCATTCAC TTTGTACTTA TTTTTCAT TAAATTTTGC 240
ATTTATTTTG AAA 253

```

(2) INFORMATION FOR SEQ ID NO: 3485:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      251
(B) TYPE:        nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

```

(B) CLONE: HUMGS04096

```

(ix) FEATURE:

```

(D) OTHER INFORMATION: "N"=unidentified base

```

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3485:

```

GATCCTAGTT CCTTCCTTCC CGAGTGATAC CCATGAAGT CCAGTAGAGG CTGCTATCGT 60
TCCATGTGTA AGGAATGAAC TGGTTCAAGG CGCGTCCTAC CCAGTCATTT TCTTTACCTT 120
ATACTAATTC TTCCTGAATA ATGTCTTCAG TTTCTTGAGG AGACTCCTAG TTTTGGTTTT 180
CAAATTACTT GGAGGGCTGC CTAGGAATCT ATCTCCCTCT GAAATAAAGT TTCCTCATCT 240
TCCACNNTAA A 251

```

(2) INFORMATION FOR SEQ ID NO: 3486:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      249
(B) TYPE:        nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

```

(B) CLONE: HUMGS04097

```

(ix) FEATURE:

```

(D) OTHER INFORMATION: "N"=unidentified base

```

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3486:

```

GATCATACGG CCTTCAGGA GACGCTGGGA TGTAAGATAC TCTTGAGGN TGGCTCTGAA 60
CTCGGGTGTC TGAATCACAG GGCAAGGGTA GCGTGCGGCT GTGGCTAACA GCAGAGTCAC 120
TTCCCTGGCC TAGCTTGGGG ACCTGGGGAG GAGGAGGTAG CTCTGGACAC CAGGGTTCTT 180
CCCATTGTGG GAGAGTNAGT TTTTtagggg GAGACCTGTC CCCCAGATTA AAGAACTGGG 240
AGCCCTAAA 249

```

(2) INFORMATION FOR SEQ ID NO: 3487:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      248
(B) TYPE:        nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

```

(B) CLONE: HUMGS04098

```

(ix) FEATURE:

```

(D) OTHER INFORMATION: "N"=unidentified base

```

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3487:

```

GATCAAAGAA GAGAGTAAAG CTATGTCTTC AATTTAATTT CAATACCTGA TTTGTACTTT 60
CCTTGAAAGC TTTACTTTAA AATACCTTAC TTATAGGCCT GGTGTCATGC TATAAGTATG 120

```

TACATACAGT TTCACTTCAA AAATAAAAAA AAANTCCCTA AAANCTCTCT ATACTCTCTA 180
 TAACANTNCT TTATCANGAN CTCTGGNCAA TGGTATTATT TNGGANANTC ATGGTGATGT 240
 ATTTNTNN 248

(2) INFORMATION FOR SEQ ID NO: 3488:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 245
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04099

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3488:

GATCTGTGTT GTAGAACATG AGGGTGTAAG CCTTCAGCCT GGCAAGTTAC ATGTAGAAAG 60
 CCCACACTTG TGAAGGTTTT GTTTTACAAA TCACTTGATT TAACACACTC AGGTAGAATA 120
 TTTTAATTTT TACTGTTTTA TACCCAGAAG TTATTTCTAC ATTGTNCTAC AGCAAGAATA 180
 TTCATAAAAG TATCCCTTTC AAATGCCTTT GAGAAGANTA GANGAAAAAA AGTTTGATA 240
 TATTN 245

(2) INFORMATION FOR SEQ ID NO: 3489:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 246
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04100

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3489:

GATCCTGATN ATATTTGGCA GCTGTCCTCC AGTCTTAAAA GGTTTGATGA CAAATACACC 60
 TTGAAGCTGA CCTTCATCAG TGGGAGAACA AAGCAGCAGC GGGAAGCCGA GTTCACAAAG 120
 TCCATTGCTA AGTTTTTTTT ACCACAGTGG GACACTGGTC ATGGATGCAT ATGNGCCTGA 180
 AATATCCAGG CTCCATGACA GTCTTGCCAT AGAAAGANAA ATAAAGTAGC CACTTCTANA 240
 AGTAAA 246

(2) INFORMATION FOR SEQ ID NO: 3490:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 239
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04101

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3490:

GATCCTGGGT ACTGAAAGNC TTAGGGAAGC TGGCCTGAGA GGGGAAGCGG CCCTAAGGGA 60
 GTATCTAAGA ACAAAGCGA CCCATTGAGA GACTGTCCCT GAAACCTAGT ACTGCCCCC 120
 ATGAGGAAGG AACAGCAATG GTGTCAGTAT CCAGGCTTTG TACAGAGTGC TTTTCTGTTT 180
 AGTTTTTACT TTTTTTGTTT TGTTTTTTTA AAGATGAAAT AAAGACCCAG GGGGAGAAA 239

(2) INFORMATION FOR SEQ ID NO: 3491:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 239
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04102

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3491:

```
GATCTGGGGA AAGGAGAGAC CATGGTGTGA ATGTAGAGAT GCCACCTANC TCTCTCTAAG 60
GCAGGCCTGT GGATGAAGGA GGAGGGTCAG GGCTGGCCTT CCTCTGTNCA TCANTCTGCT 120
AGGTTGGGGG CCCCNGNCCN NCCATACCTA CGCCTAGGGA GCCCGTCCTC CAGTATTCCG 180
TCTGTAGCAG GAGCTAGGGC TGCTGCCTCA GCTCCAAGAC AAGAATGAAC CTGGCTGTN 239
```

(2) INFORMATION FOR SEQ ID NO: 3492:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 244
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04103

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3492:

```
GATCTGTGTT TCCTCCCCAG TCATCTTTCT TGTTCAGAG AGGTGGGGCT GGATGTCTCC 60
ATCTCTGTCT CAACTTTATG TGCCTGAGC TGCAACTTCT TACTTCCCTA CTGAAAATAA 120
GAATCTGAAT ATAAATTTGT TTTCTCAAAT ATTTGCTATG AGAGGTTGAT GGATTAATTA 180
AATAAGTCAA TTCCTGGAAT TTGAAAGAGC AAATAAAGAC CTGAGAACCT TCCAGAATCT 240
GAAA 244
```

(2) INFORMATION FOR SEQ ID NO: 3493:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 235
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04104

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3493:

```
GATCCATAAA AGATTGTATT TTTATTACTA TTAAACAAG TGATTAAATT TAGTCTGCAC 60
ANNAGCAAG GGTTCACATG CATTCTTTTA TACTGCTGGA TTTGTTGTG CATCATTTAA 120
AACATTTTGT ATGTTTCTNC TTATCTGTGT ATACAGTATG TTCTTGAATG ATGTTTCATT 180
GTCAGGAGNN CTGTGAGAAA TAACTATGT GGATACTGTC TGTTTATATT ATAAA 235
```

(2) INFORMATION FOR SEQ ID NO: 3494:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 233
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single

- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS04105
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3494:

```
GATCGACTGT AAATAGAGGA CTTCTGGAAC ATTCCAAATA TTCTGGGGTT GAGGGAAAATT 60
GCTGCTGTCT ACAAATGCC AAGGGTGGAC AGGCGCTGTG GCTCACGCCT GTAATCCCAG 120
CACTTTGGGA GNCTGAGGTA GGAGGATTGA TTGAGGCCAA GAGTTAAAGA CCAGCCTGGT 180
CAATATAGCA AGACCACGTC TCTAAATAAA AATTANTAGG CCGGCCAGGC AAA 233
```

(2) INFORMATION FOR SEQ ID NO: 3495:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 243
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS04106
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3495:

```
GATCATGGAG ACCTGGCTGG TAGCTGTAAC AGAGATGGTG GAGTCCAAGG AAACAGCCTG 60
TCTCTGGTGA ATGGNACTTT CTTTGGTGGG CACTTGGCAC CAGCTCTGAG AGCCCTTCCC 120
CTGTGTCCTG CCACCATGTG GGTCANATGT ACTCTCTGTC ACATGAGGAG AGTGCTAGTT 180
CATGTGTNCT CCATTCTTGT GAGCATCCTA ATNNNTCNNT TCCATTTTNA TGACAGGANG 240
AAA 243
```

(2) INFORMATION FOR SEQ ID NO: 3496:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 231
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS04107
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3496:

```
GATCCAGAAC TGAGGTCAC TGGTTC TAGA ACNGNNACAT TTACCTCGAG GCTCTTCCAT 60
CCCCAAACTG TGCCCTGCCT TCAGCTTTGG TGAAAGGGAG GGCCCCTCAT GTGTGCTGTG 120
CTGTGTCTGC ACCGCTTGGT TTGCAGTTGA GAGGGGAGGG CAGGAGGGGT GTGATTGGAG 180
TGTGTCCGGA GATGAGATGA AAAAAATACA TCTATATTTA AGAATCCCAA A 231
```

(2) INFORMATION FOR SEQ ID NO: 3497:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 231
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS04108
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3497:

```

GATCTGCAGC CAGGCCTTTC TGAAGGNGTT ATTCTGNTAA AAATGGTCTN AGTTNTCTGA 60
AAAGCCAGCT CTTGAACCTC TTCACAACAG TATCAACACT GGCTTCTCCC GGTTTCATNTT 120
ATGCGTGCGA GAAGTCAGTG GTAACNTCTG CAGGGCTTAA TACATTAGTG GTAACCTGGTT 180
TAAAAAACAA AGACTGTAAG CCTGTGTGTG CCACTGNNNG CTTCAACNGN N 231

```

(2) INFORMATION FOR SEQ ID NO: 3498:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 224
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04109

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3498:

```

GATCCAGTT TGCAGCAAAC CCCACACCCC AGCTCACACA GCAAAAACAA TGGACAGGCC 60
CAGAGGGTGA AGCAAACAGT GTCCCTTCTG GCTGTNTTGG AGCCTCCCCA GTAACACCT 120
ATTTATTTNA CCTCTTTCCC AAACCTGGAG CATTTATGCC TAGGCTTGTN AAGAATCTNT 180
TCAGTCCCTC TCCTTCTCAA TAAAGCATC TTCAAGCTTG TAAA 224

```

(2) INFORMATION FOR SEQ ID NO: 3499:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 294
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04110

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3499:

```

GATCGGGAAC AAGCACGTTG TACCCTTGGC TGGACATGGC CAAGACACAA GGCATTCCAC 60
GGCGGCAAGC TGACCGCACA GCAGTCTGGC TTGATTTTCA GCCGTCATCA TTGGGTTCTG 120
TTTTGACAGC TCTGCTGCCC ATAGGGACTG CGACTGGGNC CAGGTCAACC ACGCCAGGGG 180
GGTGTACCA GCCTTTTCTT TTTTNTTTT TTTTNTTTT TTCCCCCTA AAGTTGTNNN 240
AAAGCNAANC CNTGGGAATA ATGGTTTNTT TGGANTNAAA CCCANNATT CAGN 294

```

(2) INFORMATION FOR SEQ ID NO: 3500:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 221
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04111

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3500:

```

GATCCAAGTT TGATAACATT GGCATGAATG CCATGGCTAA CAAAGATAAT GCAAGTNTCA 60
AACAGCTTAG ATGGGAGGCT GAACGTGATG ACTGGCTACA CAACAGAGAT GCAAAAANGTA 120
TCATCAGGAA AAGGAAACAT TTTAAAANGA AGAGGNTTAA AACCCTCAA AAANCTAAAA 180
NCCAAGGGAA ATGAGTTATT ANTGTAANTN ATAGNTTAAN N 221

```

(2) INFORMATION FOR SEQ ID NO: 3501:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 220
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04112

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3501:

```
GATCTAATTG TATTAGTATT GTGAATAATC ATGTGAAATG TTTTGAGACA GAGTACTATA 60
TTTGTGAATA TAATNNTATG GTTTTTTCA CTTAGAACCT TTCTGTGTGG AAAACTAAGA 120
AAATTGCTTT CTGCTGTATA ATCTGGCATT CATTGTAGAT TAAAGCTTAT TTNCTGTGA 180
ATAAAACGNN NNCAATAAAA TACTATTCTT TAAAATTAAA 220
```

(2) INFORMATION FOR SEQ ID NO: 3502:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 226
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04113

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3502:

```
GATCTGGACA CCCTGTCTCC TGAGGAGCGC CGGGCCAGGC TGC GGAAGTN TGAGGCTCAG 60
CTCCAGTCGA GGAAGGAGTA CGAGCAGGAG CTCAGTGATG ACTTGCATGT GGAGCGCTAC 120
CGACAGTTCT GGACCAGGAC CAAGAAGTGA CCGTGGCTCC AGCCACCCCG GGACATTGCT 180
AAGATGGGAG GGCTGTTCTT AAATNACTCG TTCTGAAGC TGCAAA 226
```

(2) INFORMATION FOR SEQ ID NO: 3503:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 215
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04114

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3503:

```
GATCATGCCG AAAAAGTGGC GGAAAAGCTA GAAGCTCTCT CGGTGAAGAN GANNCCAAGG 60
AGGATGCTGA GGAGAAGCAA TAAATCGTCT TATTTNATTT NCTTTTCCTC TCTTTCCTTT 120
CCTTTTTTNA AAAAATTTTA CCCTGCCCCCT CTTTTTCGGT TTGTTTTTAT TCTTTCATTT 180
TTACAAGGGA CGTTATATAA AGAACTGAAC TCAAA 215
```

(2) INFORMATION FOR SEQ ID NO: 3504:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 213
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single

- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS04115
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3504:

```
GATCTNTTCT TAAATGTACAT AGTGCTAACA TGAAGACCTT TTTNTGCACT ATATGCAAAC 60
AGGGTAACTA ACTAAAACAA AGCCACTTTC AATCTTCAAT CCTTGAAGGT ATATCTAGGT 120
TTATNACAGT AATTGTNTTT ACATTTNATG GTGCCTAGTA TTGACAAAAT GTTATTTCCC 180
TACATTAAAC ATGACTCCAT AGACCTTTTC AAA 213
```

(2) INFORMATION FOR SEQ ID NO: 3505:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 212
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS04116
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3505:

```
GATCTAATGT AAAATCCAGA ACTTGGA CTC CATCGTTAAA ATTATTTATG TGTAACATTC 60
AAATGTGTGC ATTAAATATG CTTCCACAGT AAAATCTGAA AAAGTATTT GTGATTGAAA 120
GCTGCCTTTC TATTTACTTG AGTCTTGTA C ATACATACTT TTTTATGAGC TATGAAATAA 180
AACATTTNAA NCTGAATTNN TTAACNTTGA AA 212
```

(2) INFORMATION FOR SEQ ID NO: 3506:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 211
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS04117
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3506:

```
GATCAGAGAT GCTGTTTCATC AGTCCCAACA AGATGGCCTA GAAATCGCAT TCTCACCTCG 60
CCTTGCTGCT GCTTTAATTC CAAGTTCTAT TTCTTCCCTT ATAGTTTTCT ATGGGAATGA 120
GGCGGATACA GGAAACACCC TATCTCCTCT GTATTTTTGT AGTGAATTT CTATTTAAGG 180
GGCTCATTAA AGCATAGTAT TTATACACAA A 211
```

(2) INFORMATION FOR SEQ ID NO: 3507:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 209
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS04118
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3507:

GATCGAGATN CAAAGCCACA TNCTCTCTCA CCAAGNTAAA CTATTANAT TAATTGTTAG 60
 CGGTGTTATG CTGCTTTCTT CTTTGACAAG GCCATGACTA AGAAGGCTCT AAGTAAAGGA 120
 AGAATCATTT ATTCCATAGT CAGCTAACTG GTAGCAAAGC CTTCTNTTCC AAGACACCAA 180
 GGGAGAGGGG AGGACATAAA TTATGCAAA 209

(2) INFORMATION FOR SEQ ID NO: 3508:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 208
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04119

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3508:

GATCCCCTCT TNAGTCNCT GCCCCTTCCA AGGACACTAA TGAGCCTGGG AGGGTGGCAG 60
 GGAGGAGGGG ACAGCTTCAC CCTTGGAAGT CCTGGGGTTT TTCCTCTNC GCCCCTGTG 120
 GTTTCTGTTT TGTAATTTAA GAAGAGCTAT TCATCACTGT AATTATTATT ATTTTCTACA 180
 ATAAATGGGA CCTGTGCACA GGAGGAAA 208

(2) INFORMATION FOR SEQ ID NO: 3509:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 322
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04120

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3509:

GATCCAAGCA TATAAAAAGC CTNTATATTT TTNAAAAACA CATCTTAACT CCACGCTTTA 60
 CGATATTATA AAAGTTGAAT GGTTCTCTT GGTAAGGATA TTTGCTTACA AGTGCTAGGA 120
 AATAACTNNC TGATAGCTGC GTTAACATAC TTNGTTTTGC CTAGAGAGGG GCAATAAAAA 180
 TGAACCAAAG GATATTTCCA GAAAGGATTA AGAAAGCTGT TTAAGANGGC CATGACTCTT 240
 TAGGTGTGTA TGTGTACCTT TCAGCATCCT AGGAATTTN ATACTAAAAG CAAAATGTTT 300
 TTCCCAGTTA GTCTTCTTCA GN 322

(2) INFORMATION FOR SEQ ID NO: 3510:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 205
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04121

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3510:

GATCCGNCCA CCTNGGCCTC CCAAAGTGCT GGGATTACAG GTGTGAGCCA CCGTGCCCGG 60
 CCTCTTTTAA TTTATNCCTA AAATATTACC TTGAGGCCAA ATNCTGCGCT TAAGGAGAAT 120
 GTGCACCAAG TGCTGGGGTG GGGGCTGGTT ATAAACGAGG CCACAAATNA TGCTTGTA 180
 TAAATTGTGT GGTTCAAATC TGAAA 205

(2) INFORMATION FOR SEQ ID NO: 3511:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 205
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04122

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3511:

```
GATCCCTCAC TTTATTTATA TTCCACTAT AACAGTAAG TTCATTTTCAT AGGCCCTATC 60
ATGCATTAAT CATTGNATGN NAGNAGTTAA TGAAACTTT TCCTGTTACA ACGCCCATTG 120
CCGGCAATGA ACGTACCAA ACCGCCAAGG AAGTCATTGT TATTGCACAA TACATGAGGA 180
CCTGGAGCTT TTCCAAAAGC TTAAA                                     205
```

(2) INFORMATION FOR SEQ ID NO: 3512:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 204
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04123

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3512:

```
GATCTAAAAC GGCTATTTAA TATGTTACAA GGCCTTGAG TATGGTTGCA TGTCCAAATA 60
TAAATGTTTT TAAATTAAC TAAACATTTG GTTATAAAAG TTTANCCATA ATAATAGAAT 120
TTTTAAACA CGNTTGTTNG GTTTAATCTT AGCATATTTT TCCAATAAT AAAGCTCAGT 180
ATTCTGCTGN GTTCTCAGNG GAAA                                     204
```

(2) INFORMATION FOR SEQ ID NO: 3513:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 201
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04125

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3513:

```
GATCTCTCTC ATTCATTTCA ATGTATTTTT ACTTTAAGAT GAACCAAAT TATTAGACTT 60
ATTTAAGATG TACAGGCATC AGAAAAAGA AGCACATAAT GCTTTTGGTG CGATGGCACT 120
CACTGTGAAC ATGTGTACCC ACATATTANT ATGCAATATT GTTCCAATC CTTNCTAATA 180
CAGTTTTTTA TAATGTTGAA A                                     201
```

(2) INFORMATION FOR SEQ ID NO: 3514:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 200
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single

(D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04126
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3514:
 GATCCAATTT ACATCCACAT TTTAGGTNCA ACAGCAAGAA GTTCAGAGAG AGATTTCCCA 60
 ACCAGACATT GGGTCACTCA CTGGTCACCT TGCCAGTNCA TTTTATTAGA AGGGAATCTG 120
 TTGTAGCAAA TGGAATAAAA CCTGGGTTTC TATAGACCCA GAACTGAAAA AATAAACATC 180
 GTGCTGTTTT TAATTNGAAA 200

(2) INFORMATION FOR SEQ ID NO: 3515:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 209
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04127
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3515:
 GATCTTAGTT TTCTTTTGTT TATTTCCAG CTCATTTTTT TCTTCTGGTC AGTTTTTTTA 60
 AGGGGGGGTG TTGTGGTTTT TTGTTTTGT TTTGCTTCTG AGAAAGCATT TGCCTTCTT 120
 CCTCTCCCAA CATAACAATC GTGGAACAG AATGCGACTG CTNGATTAC CGATGTATTT 180
 AATGTAAGTA AAAAAAGGAA AAAAAGAAA 209

(2) INFORMATION FOR SEQ ID NO: 3516:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 198
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04128
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3516:
 GATCCATTCC CTGCAACTNA AGATTCTAAG GAACTGGGTT TCTCAGTATA CAATGGGAAT 60
 GGTGNGNAGG AGGTAAAGAG TAGAAGACAG TATCAAGANT CCAGAGCCCA GCACCTGTAG 120
 TCCTAACTAT NCANATTCCT TGAGCCCAGG AGTTTGAGTC CAGCCTGGAC AACATATTGA 180
 GACCCCATC TCTCTAAA 198

(2) INFORMATION FOR SEQ ID NO: 3517:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 191
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04129
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3517:

GATCATGAAT AGGAGCCCAT GCTAGAAGTA CATTCTCTCA GATTGGAACC AGTGAAATAT 60
 GATGTATTTC TGAGCTAAAA CTCAACTATA GAAGACATTA AAAGAAATCG TATTCTTGCC 120
 AAGTAACCAC CACTTCTGCC TTAGATAATA TGATTATAAG GNAATCAAAT AAATGTTGCC 180
 TTAACCTCAA A 191

(2) INFORMATION FOR SEQ ID NO: 3518:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 191
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04130

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3518:

GATCCAGGCA GCCAAGAACT TGATGAATGC TGTGGTGCAG ACAGTGAAGN CATCCTACGT 60
 CGCCTCTACC AAATACCAAA AGTCACAGGG TATGGNTTCC CTCAACCTTC CTGCTGTGTC 120
 ATGGAAGATG AAGGCACCAG NGNNAAGCC ATTGGTGAAG AGAGAGAAAC AGGATGAGAC 180
 ACAGACCAAG N 191

(2) INFORMATION FOR SEQ ID NO: 3519:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 187
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04131

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3519:

GATCTCCCC AAAGATTCCA GGCGGTGCAA CCCTGCNTGT TCGAGGTGGA GCTGCTCAAA 60
 ATAGAGCGAC GAACTGAGCT GTAACCAGAC TGGGGAGGGG CAGGGGGAGA GGCCCCCATC 120
 AGGGACCAGA CTGTTCCAGA AAAAAACAA AAAACANAAA CAAACAAAAA AACACTTAAA 180
 AGCCAAA 187

(2) INFORMATION FOR SEQ ID NO: 3520:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 184
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04132

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3520:

GATCGAGACT CTNCCAGAAA ACAAACAAA ACAAAAAAAA ATCCGTTTCT AAGGACGGCG 60
 GGGATTCGGT TCGAGCCCGT GGCTGCTCTG TTTTGTTTTG CTTTCTTGGT ATATAATCCT 120
 ANAAATAAAA GGGTAATATA AATATTTNAG AAGAGGGAAA TTGCTGAAGA GTAGTAAGGG 180
 CAAA 184

(2) INFORMATION FOR SEQ ID NO: 3521:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 177
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04133
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3521:
 GATCAGATGA CCATTGAGGA CTTGAATGAA GCTTCCCAG AAACCAAATT AGACAAGAAA 60
 AAGTATCCCT ATTGGCCTCA CCAACCAATT GAGAATTTAT AAAATTGAGT CCAGGAGGAA 120
 GCTCTGGCCC TTGTATTACA CATTCTGGAC ATTAATAATA ATAATTATAC AGTTAAA 177

(2) INFORMATION FOR SEQ ID NO: 3522:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 220
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04134
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3522:
 GATCCCATCC GAAGCTCAGG GTATGGAGAG CGGGGAGCTC CNCCAAAGAT TCCAGGCGGT 60
 GCANCCTGGT GTTCGAGGTG GAGCTGCTCA AAATAGAGCG ACGAACTGAG CTGTAACCAG 120
 ACTGGGGAGG GGCAGGGGGA GAGGCCCCCA TCAGGGACCA GACTGTTCCA AAAAAAANC 180
 AAAANCAAA ANCAACAAA AAAACACTTA AAAGCCCAAA 220

(2) INFORMATION FOR SEQ ID NO: 3523:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 172
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04135
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3523:
 GATCCTACCT AAGGGGCACA ACTAGTAAGG GAGTAGAGCT GAGATTGGCT CCAGAGTTCT 60
 TGTTTTTCAGC CACCATTTTA TGCTGCCTCT CCAGTNATTT TTTTCCCAT TTTCTTCAGT 120
 NTTTCTATAG CAGAGATTG ATAATAAAAA GAAATCCTA AACAATGAGA AA 172

(2) INFORMATION FOR SEQ ID NO: 3524:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 169
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04136
 (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3524:

```
GATCGCACTG CGCAGGGGTG CCACGGAGCT CACCCACGAG GACTACATGG AAGGCATCCT 60
GGAGGTGCAG GCCAAGAAGA AAGCCAACCT ACAATACTAC GCCTAGGGCA CACAGGCCAG 120
CCCCAGTNTC ACGGCTGAAG TGCGCAATAA AAGATGGTTT AGGGTCAAA 169
```

(2) INFORMATION FOR SEQ ID NO: 3525:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 169
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04137

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3525:

```
GATCTCAGGC ATCGGATTAT TTCTCCTGTA AATATTTTCTAG AATGTATCTN TCCAAGATGA 60
GAGCTCATTAAAGACAATTACAAAGCTTA TCACATCCAA AAGANTTATC AATAATTTTN 120
AAATATTATT AANC GTGTAA TAAATNTNCA AAGTNCCACT TGCCTTAAA 169
```

(2) INFORMATION FOR SEQ ID NO: 3526:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 165
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04139

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3526:

```
GATCAAAAANG AGTNAANCTA TCCAAAAAAA ATTTGTATAT TTGGGAAAAA TGGATTTTTA 60
CATAGCTTTT GTATGCAGAT ATAAAACTGT AATTATGAAT ATAGTGGGCG TAGATAAACT 120
CATAAGCTTA AATTCTAAAA ANGAAAAAGC TTATACCANG ATAAA 165
```

(2) INFORMATION FOR SEQ ID NO: 3527:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 165
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04140

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3527:

```
GATCAGCCGA TGACAGAGAT TGTAAGCCGT GTGTCGAAGC GAAAGTTGGA GCCGCCACGT 60
GCGGGCNCTG GTGCTTNANC TGTGCTGTAA CGACGAGAGC GGCGAGGATG TCGAGNTTCC 120
CTATGTCCGA NACACCATCC GCTGACCCCG TNTGNTCCTN TAGGN 165
```

(2) INFORMATION FOR SEQ ID NO: 3528:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 165

(B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04141
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3528:
 GATCCATTG AAAGTNATTT TGACATAAGG AGTAAGGTTA CTACTGATTC CTACTCAGGA 60
 GGCTAAANTG GGAGGACCAC TTAAGTATGG NAGGTCGAGG CTATAGTGAG CCATTACTGA 120
 GCCACTGCAC TACAATCTGG GCGACANAGC AAGACTCTGT CTAAA 165

(2) INFORMATION FOR SEQ ID NO: 3529:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 161
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04142
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3529:
 GATCCTGTGT TTGCAACTGG GGAGACAGAA ACTGTGGTTG ATAGCCAGTC ACTGCCTTAA 60
 GAACATTTGA TGCAAGATGG CCAGCACTGA ACTTTTGAGA TATGACGGTG TACTTACTGC 120
 CTTGTAGCAA AATAAAGATG TGCCCTTATT TTACCTACAA A 161

(2) INFORMATION FOR SEQ ID NO: 3530:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 161
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04143
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3530:
 GATCAGTCAT CCACCAGGAA CGAAGATTTT CTGAAGAAGA CCTGGTCCCT CTGGAGGTTG 60
 CGGTGGCTGA AGGATGCATC ATGTGCTCCT ACCCTGCTCT ACCGCTTTNT TGGGTCACAG 120
 AGGCCAAATG TGAGAGCATT GAATAAATAT CTTAAGCTAA A 161

(2) INFORMATION FOR SEQ ID NO: 3531:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 159
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04144
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3531:
 GATCTCGTGA AGCCCGCAAG GACCGAACAC CCCCACCCCG ATTTAGACCT GCGGGTGCTG 60

CCCCACGTCC CCCACCAAAG CCCATGTAAG GAGCTGAGTT CTTAAAGACT GAAGACAGGC 120
TATTCTCTGG AGAAAAATAA AATGGAAATT GTACTTAAA 159

(2) INFORMATION FOR SEQ ID NO: 3532:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 386
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04145

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3532:

GATCCTTACA GTAGAGGTGA CCCCTGTAAT ACCATCTGCT GCCGTGAGGA CCTGAACTCA 60
CCTAACCCAA GTCCTGGAGG TTNNNNNGAC ACAAAGGTGG CAGATATCTA CCTAGCATCT 120
CAGTACACAT CCTATGCCAT AAGTGGTCCC ACAGTACAAG GTGGCCTCCC TGTTTTTCGC 180
TGGGACCGTT TCAACAAAAC TCTACATCAG GGCATGCCAG AGGTCTACAA CTTTGATTTT 240
ATTACCATGA AACCAATTTT GAAACTTGAT ATAAATGNA GGAGGGAGAT GACGGACTAG 300
AAGACTGTAA ATAAGATACC AAAGGCACTA TTTTAGCTAT GTTTTCCCA TCAGAAATTAT 360
GCAATAAATT TNTTAATTTT GTCAAA 386

(2) INFORMATION FOR SEQ ID NO: 3533:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 391
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04146

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3533:

GATCAGATTA AACCATTGAA GTTGAAGTT CATNAGGCTA AGCCTGTNCC AGAAAATCAC 60
CCACAGTGGG ATACAGCAAT AGAGGGGGAT GAAGACCAGG AGGACAGTGA GGGCTTTGAA 120
GATAGCTTTN AGGAAGAAGA GGAGGAAGAA GAAGATGATG ACTAAGCAGT ACTCTGAATG 180
GNCCACAGTG TTTGCACATA TTTNCAATTT TTTNCTGTTT TGGAAGTGTA TCATAAACCA 240
GAAACAGTAC AGAACTGATG TTGNGGGNGG TGTNGTTTTT TTA CTCTAGA NATGGGTGCA 300
TAATATNACT AGGCAGTGGC GGTGCCTTGG TNCANCCTGN AAAATGTTAA GGCTTTNTTG 360
AAACCTTTCC AGTNGGGGNT GGTCCNTTNA N 391

(2) INFORMATION FOR SEQ ID NO: 3534:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 157
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04147

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3534:

GATCCGCCCG ACTCGGCCCTC CAAAATGCT GGGATTACAG GCGTGAGCAT TCAAGTCTGG 60
CGAGAGAGAT TGTTTCTAGA TGAGGGTGGG GCGGGTGTCT CTTAGCCCAA AGCTTGTGCC 120

AGTCTCTATC GGAAATAAAT GCCCCCAAAA CCTCAAA

157

(2) INFORMATION FOR SEQ ID NO: 3535:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 154
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04148

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3535:

GATCTACAGC AAAACACAGC GGGAGAGGTT CGCCTGGGCT CTCGCCATGG CAGGAGAAGA 60
 CTTTGAATTC TAACGACGAG CCGTGTGTA ACTTCTTTT TATGTGTGTG TGTTTTTTTC 120
 ACTATTAAAG CAGTACTGGG GAATTTTGTA CAAA 154

(2) INFORMATION FOR SEQ ID NO: 3536:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 151
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04149

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3536:

GATCTAGGCA ATGATTTAGA GGAAACCTCN TCACAAAAAC CCCAGAGGAA GAATATGACC 60
 TGTGTTTCAA ATTTTGCCTT TCTGAACAT TTAATAATTAT GTGTATGTTT TTGCTTTGTA 120
 TTTTAAAAGT AAAGCTGCTG TCCTCAAGAA A 151

(2) INFORMATION FOR SEQ ID NO: 3537:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 355
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04150

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3537:

GATCTATGAA AGCGGGGAGA GGGAACCTGA ATATTAATTA TGAGCACAAA TTTGAAGGAA 60
 AGAAAACAAA GAACCATTAT CTAATCAAGC TTTGAAAGTC CTGCATGTTT GCCTTTTATT 120
 TTAGTGTTGA CGCCAACATA GACTGTCTAA GGTATTTTTT TCCCCAACA CTTGAATCTT 180
 GGTCGTTGGT ATGTAATCCA CTCTCTAGAG TCCAGTGTAC TTTAGACTTC ATCTGAGTCC 240
 AATATATGTA CCACACTACT GTTTTATTAA TGTAAAAACC TTGTAAATGA ATTCAGATG 300
 GGTGATTTAA GTGAGTCACA AGTCACAAAA CTTTGCTATT CATAGTTTAT CTNGN 355

(2) INFORMATION FOR SEQ ID NO: 3538:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 148
- (B) TYPE: nucleic acid

(C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04151
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3538:
 GATCTCTGCT TCCTGTACCT TGACATGCAA AAGGCTCTCC TAATACTCCA CATTCAAAC 60
 GAAGAGGAAA ATTGAAATCT CTAATGAAGC TGCTGTGTGT ATTTATGANT ATTAATGAAT 120
 AAAAACTGCT TGGATGGTTT ACCTTAA 148

(2) INFORMATION FOR SEQ ID NO: 3539:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 148
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04152
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3539:
 GATCAACAAC TNGTACTCT CGGGAAGACT CCTCTACTCA CAGCTGAAGA AAATGAGCAC 60
 ACCCTTCACA CTGTTATTAC CTATCCTGAA GATGTGATAC ACTGAATGGA AATAANTAGA 120
 TGTAAATAAA ATTNAGTTCT CATTTAA 148

(2) INFORMATION FOR SEQ ID NO: 3540:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 147
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04153
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3540:
 GATCAGAGTA AACAAAAGGA ATCTCAAAGG AAATTTGAAG AAGAACTGT AAAATCCAAA 60
 GTGACTGTTG ATACTGGAGT AATTCCTGCC TCTGAAGAGA AAGCAGAGAC TCCCACAGCT 120
 GCAGAAGATG ACAATGAAGG AGACAAA 147

(2) INFORMATION FOR SEQ ID NO: 3541:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 146
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04154
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3541:
 GATCGTGGCG CATGGCTTGG GGATTAAACT ACCCTTGANG AGGACCCTTG TCCCAAACCC 60
 TTCTTGTCT CTCCTCCAAA AGTAGCTTCC TCCAACCCGC AGCCTCTCTG CACACTAATA 120

AAACATGTGG CTTGGAAAGG TTCAAA

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(2) INFORMATION FOR SEQ ID NO: 3542:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 144
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04155

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3542:

GATCTTTAAG GACAAGTTTA TCCAGCATCC AAAAACTTT GGACTAATTG CATCATACTT 60
 GGAGAGGAAG AGTGTTCTTG ATTGTTTTTT GTATTACTAT TTAACCAAGA AAAATNAGAA 120
 TTATAAGGCC CTCGTCAGAA GGGN 144

(2) INFORMATION FOR SEQ ID NO: 3543:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 140
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04156

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3543:

GATCTGGGTT TTNATATCTT TATCTTCATT CAGTGAAGCA AGCCAAAAGC NCACATTGT 60
 ATGCNTTAGG TCTTCTTAAA ATGGTATCTG TAAACATGTG TCCAATATAA AANCTATTTT 120
 NAATAAANG TTACATGAAA 140

(2) INFORMATION FOR SEQ ID NO: 3544:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 138
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04157

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3544:

GATCAGCAAT GAAGAACTGG NCGGACAAAA TTNAACGTTN ATGTAATGGN ATTCCAGATG 60
 TAGGCATTCC CCCAGGTCT TTTTCATGTGC AGATTGCAGT TCTNATTCAT TTGAATAAAA 120
 AGGAACCTGG AAANCAAA 138

(2) INFORMATION FOR SEQ ID NO: 3545:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 137
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04158
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3545:
 GATCTAAATG GGCCAGGTG TTTACCTTA TNTNGTTTTC TGCTAAATNA TGGAGGTTTG 60
 GGGAGTTCCT TCTCCACTTG TTTGTGGAGG CCTGGGGAGT TTTTNAGAC CCCAGTAAA 120
 ACTNGTTTAA TCCTAAA 137

(2) INFORMATION FOR SEQ ID NO: 3546:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 136
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04159
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3546:
 GATCCCTGTA GAGGTGGTAT TAAAGATGGT CACTGAGATT AAGAAGATTC CTGGTATTTTC 60
 TCGAATTATG TATGACTTAA CATCAAAGCC CCCAGGAAGT ACTGAGTGGG AGTAATAAAC 120
 TTCTTGTTCT ATTAAA 136

(2) INFORMATION FOR SEQ ID NO: 3547:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 135
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04160
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3547:
 GATCCTAAAA TNNTCTACTT TTGTNGCCTT ATCAGTNCTT TGCAATCTGC CTGTGGTTAT 60
 CAGCACTTAA AGCACAATTT TGAAGGGGAA AAAAATGATA ATCACCTTAG TCCCAAAGAA 120
 ATAATTTGTC ANNCN 135

(2) INFORMATION FOR SEQ ID NO: 3548:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 134
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04161
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3548:
 GATCTGGACT GGCTGGGAGT GGGGAGGGCG TGGAGACAGT CTACGGAAAG CGCTANAGGA 60
 CCCCCGAGAG GGTGCAGTGG AGCCCTGAGC ATTGTAATAT GCGGCCCAGC CTATAAACAG 120
 CCTCCGTGCT TAAA 134

(2) INFORMATION FOR SEQ ID NO: 3549:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 134
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04162
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3549:
 GATCCTTTGC TGTAACCTNG GAGAGACCAG TCCCAAACAG AGGGGAATTT TAAGCCCTTC 60
 TCATCACCCA ATTGGATGTT TTTGCTTATA GCAAATTCCT GCAAATATAA TAAATAAATA 120
 TTTGCAAAAC TAAA 134

(2) INFORMATION FOR SEQ ID NO: 3550:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 133
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04163
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3550:
 GATCTATGGG AAGATACTTA TTTTCTGAG GTCCTTATGT CCTGTCATAT AATTAAAGAC 60
 TCAAGAGAAT TTATGTGAAA TGCTTTCTGT ATGCCCAAAT CTTTAGATTA AAATTATATA 120
 GCTGCTCCTG AAA 133

(2) INFORMATION FOR SEQ ID NO: 3551:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 132
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04164
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3551:
 GATCTCAGTT CCNTAAAAAA TGATAAAAAT TTTTCATGTA TATTACATAT CTACCTACCA 60
 GAAATCCTTT TTACAATTTT ATATACAATC ATTTTAAGAC CTTTTTGAAA TAAATAATGC 120
 AAATGAAC TA 132

(2) INFORMATION FOR SEQ ID NO: 3552:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 154
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04165
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3552:
 GATCACGGGG TGGNAGGNAA CCGNGGCGTC CCTGCNTGGG GCCCATGGGT GANACACTCC 60
 AGTACTGAGA CCTAGAGTCC AGATGCTTGT AGGAGCCAAG TCGTGTTCTA AGTATTTATT 120
 TAAACAAAA GAATCACGTT TTCCCATTTG TAAA 154

(2) INFORMATION FOR SEQ ID NO: 3553:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 213
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04166

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3553:

GATCCTTAAT TGTAGCCTTT GAAGGATGCC CTGTGTAGAT TATTCAGTGC CACAAATTGA 60
 AAGCTTCCAT GTTTAATNTT ATCCTCTTGC TATATAAATA AAGCAAATAT ATTTAGGCCA 120
 GGGTCTCACT GAGGGGGAGC TGTCTTGTC TCTTTTAGAG TAAACTATTC TATAACATA 180
 TGCAAACAGC CCTAAATAAA TCTAAAGTCT AAA 213

(2) INFORMATION FOR SEQ ID NO: 3554:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 125
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04167

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3554:

GATCCCAAGG GCCCAGATAA CGCCCCAAC TTCTTGGGGT TCACACGCGT CCTGAGACAT 60
 CTGGGAAGTCT CCTCTGCCTG GNCCAAAGCT ATTCCATTAA AACTTTATTG CTGTNCTTAC 120
 TCAAA 125

(2) INFORMATION FOR SEQ ID NO: 3555:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 127
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04169

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3555:

GATCTGTGTA CAATTTTNGT CACTANGACT TTCCTCCAAG AACTAAGCCA ACTTGATGTN 60
 NCAAGCACA GCTGTATATA ATGGTGATGT CATAATAAAG TTGTTTTATC TTTTAAGTAA 120
 AAGTAAA 127

(2) INFORMATION FOR SEQ ID NO: 3556:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 126

(B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04170
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3556:
 GATCAAGGAC TCTGGATAAT TGGCATAACA TCCTGGAATA GCTGAAACAG AGATATTATT 60
 CTCTGCTGTC CTCTGTTGTC TTTGTCTTTT CACGTCTTAA TAAAAGTGCT GGTGACAAGA 120
 GTGAAA 126

(2) INFORMATION FOR SEQ ID NO: 3557:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 123
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04171
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3557:
 GATCAGAGCC ATACCCCTCT TCACCAATGG GAAGTCAAGA CACCTATGGG TAAAAGTTCT 60
 CTCTGATGCA TGAAACTCA GAGTGATAAA GTAATTTTAA AATAAAAATT TGGAGAAAGC 120
 AAA 123

(2) INFORMATION FOR SEQ ID NO: 3558:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 121
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04172
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3558:
 GATCTAAAAG TTTTCACACA TAAATTTTCAAT TAATTTGAAA GATTATTTTTT AAACCTGCATA 60
 GGTCCACTTG CCTCTAAATA AAATNAACCT AAAATAAAAA CAACTATAC TTTGTGAGAA 120
 A 121

(2) INFORMATION FOR SEQ ID NO: 3559:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 121
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04173
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3559:
 GATCTCCCC AACCCACAA AATGCTTAAA AGATAACTTA GCTCTTTNTT CAGGGCTCAG 60

TCCTTTGGAT GTAATCCGAC TAGGCCAGTN AACCTAAATA ATAAATATCC TCCTCAACAA 120
A 121

(2) INFORMATION FOR SEQ ID NO: 3560:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 120
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04174

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3560:

GATCCTGAGT TTTCTGGGAC AATTCCAGCT TTAATCAATA CATTTTGTTA AATGTGCCAT 60
AAAATGAGAC TTTTACGCC TTTATAAGGC CTTAGATGTA AATAAATCA CCCAAACAAA 120

(2) INFORMATION FOR SEQ ID NO: 3561:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 119
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04175

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3561:

GATCATTGTA TTCAGAGATT GTAAATGAAA AAATATAGAA ACTATTTAGT TTTGGTAGAT 60
TTTTTTTCTG ACAATGTGAC CAGACTGAAT TTCCTCATAA AGAAAAAATG GCGTGCAAA 119

(2) INFORMATION FOR SEQ ID NO: 3562:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 118
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04176

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3562:

GATCCCAGCA TTTTCCATCG ACTTGTAATT GTTCTGCTA CCTGACAATC ATCGCCTTGA 60
GTACTGGGAC AACCTTTGAT TACTCATTAT ATCCTCAATA AATATTGTT GAACTAAA 118

(2) INFORMATION FOR SEQ ID NO: 3563:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 118
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04177

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3563:

GATCCTGGCT AGANTGNTAA TTAAAAGTAT TTAATTTGAA GCACCATTTN ANTGTTCGTA 60
CTAGTAGAAA ATGATGTGAA TTTCTTTTCT GTTCGGCTCC TATTTTCCTC ATCATTTN 118

(2) INFORMATION FOR SEQ ID NO: 3564:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 82
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04179

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3564:

GATCATAGTC GGGCATACTT ATCTATATCC NTAACCTCTA TATCTTTAAA TAAATGTGAG 60
NACTGTTCTC ATGGAGANGA AA 82

(2) INFORMATION FOR SEQ ID NO: 3565:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 214
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04180

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3565:

GATCTAAAGC NTTTTNTGTCA GATTATTTAA TATNATGACT TCATGCTTTA TTATGCCTTA 60
TNATGGCTGA CGTATTACTG TGGTGAAACA AAATATCTTT AAAAGTTAAA ACATCCAGAT 120
ATATAAGCAA TTTTNCCCTA AGGATAAAGT ACCTTTAAGC ATGAGTGTAT CACAGCTTTC 180
ATTAGGNAAA CTTTTCATTA CATACTTGTT TAAN 214

(2) INFORMATION FOR SEQ ID NO: 3566:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 102
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04181

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3566:

GATCCCCNAA TGTGTATGAA TGACTGAGGC TTTGTAAATT AAGGGACGTT TGTTTGAATA 60
AAGTTATTTG ATGGGGTCAA AGAAGCCATA TGTGATTTGA AA 102

(2) INFORMATION FOR SEQ ID NO: 3567:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 101
(B) TYPE: nucleic acid
(C) STRANDNESS: single

(D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04182
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3567:
 GATCCTCTCC TTAGTCTTAG CTCATGGGGC TCTTTATAAA GGAGTTGGGG GGTAGAGGCA 60
 GNAAAATNGG AACCGAGCTG AANGCAGAGG CTGAGTTAGG N 101

(2) INFORMATION FOR SEQ ID NO: 3568:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 99
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04183
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3568:
 GATCTGCAGT GCTTCACTGG AAATAATTTA TTCATTGCAG ATACTTTTAA GGTGGCATT 60
 NATTCATTTT CTGTGCTTTA AATAAACAAA TGTACCAA 99

(2) INFORMATION FOR SEQ ID NO: 3569:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 97
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04184
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3569:
 GATCACCTG GGCACATGTT GTCAGGACCT CCTGGGGTTG TGTCATGGAT GCGTGCCTC 60
 AACCTTAGCA AAATAAACTT TCTAAATTAC TGAGAAA 97

(2) INFORMATION FOR SEQ ID NO: 3570:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 95
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04186
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3570:
 GATCTTCAGT GTGTCTGCAT AAGCTAACTT AAGATGAATT TAAGTACANN TTTCTGAAAT 60
 ATTTCTATTG AAATAAATTA CTTAAATTA NNA 95

(2) INFORMATION FOR SEQ ID NO: 3571:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 94

(B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04187
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3571:
 GATCTTTGTG AATTCTATGA ATGTATTAAG TTATCATATG TACTCCCCAA AATAGGTACA 60
 TCTATTATGT ATCAATAAAA AANTTTAAAA CAAA 94

(2) INFORMATION FOR SEQ ID NO: 3572:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 93
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04188
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3572:
 GATCCCTTGA GCCGAGGAGG TTGAGGCTGC AGTGAGCTAT GGTACACCA CTGCACTCCA 60
 GCNTTGGTTA TNATGCAAGA CCCTGTTTAC AAA 93

(2) INFORMATION FOR SEQ ID NO: 3573:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 89
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04189
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3573:
 GATCGCACAC CTTTGCAACA GATGTGTTCT GATTCTCTGA ACCTACAAAA TAGTTATACA 60
 TAGTGGAATA AAGAAGGTAA ACCATCAAA 89

(2) INFORMATION FOR SEQ ID NO: 3574:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 90
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04190
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3574:
 GATCAGTGTC TCTAGTCCTA CCCAGTTTAA AAGTTCATGG TAAGATTGGA CCTCATCTCC 60
 CTCAAATAAA TNTATTGGTG ATTTTNGAAA 90

(2) INFORMATION FOR SEQ ID NO: 3575:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 87
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04191

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3575:
 GATCCGCCAG GTGCGGGCGC TACTGCAGGC ACAGCAGGCC TAGGTCCTCC CACACCTGCC 60
 CCCTAATAAA GTGGGCGCGA GAGGAAA 87

(2) INFORMATION FOR SEQ ID NO: 3576:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 87
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04192

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3576:
 GATCCACCCA CACCTAAGTC ACAGAATTTT TAAGTTCCCC AACTACTCTC ACACCCNTTT 60
 AAAGATAAAG TATGTTGTAA CCAGAAA 87

(2) INFORMATION FOR SEQ ID NO: 3577:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 83
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04193

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3577:
 GATCAAACCTG AATGAAACCC CCACACACAC ACACATGCAT ACACACACAC ACACAGCCAC 60
 ACACACAGAA AATATACTGT AAA 83

(2) INFORMATION FOR SEQ ID NO: 3578:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 83
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04194

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3578:
 GATCCCTATT CTGCGTGTAT GTGTTTGCAC ATGAGTGTTT GTAGACCATA GACCATTAAA 60
 AAATACGGAA TTCAAAAGTT AAA 83

(2) INFORMATION FOR SEQ ID NO: 3579:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 84
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04195

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3579:

GATCTATGAA TGTTTTTNTT AAAATTTACA AAGCTTTGTA AATTAGATTT TTTTAATAA 60
 AATGCCATTT GTGCAAGNTT TAAA 84

(2) INFORMATION FOR SEQ ID NO: 3580:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 112
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04196

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3580:

GATCACATAA AGGCAAGAGG ATAATTTCATG AATAATACAT TTNAATGCAA ATAAACAGAT 60
 GGTTCAC TTC TACTAGCTAT NNCCCTGTCT TNNTATACAC TGAGTAGATT AN 112

(2) INFORMATION FOR SEQ ID NO: 3581:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 74
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04197

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3581:

GATCTATGTC TGTTGGTGGC AATGTGAGGG TGATACTCTC TCACTCTAAT AAACCTGGCA 60
 CTTCTCCGAG TAAA 74

(2) INFORMATION FOR SEQ ID NO: 3582:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 74
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04198

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3582:

GATCCTGTAT GTGTGTTGAG ATTTAGAGGT TTCATTTATN TTGTCTGCTA ANAAATTGTT 60
 ACTCTAATAA TAAA 74

(2) INFORMATION FOR SEQ ID NO: 3583:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 71
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04199

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3583:

GATCACTGTA TAGACTGTTA AATTTGATTT CTTATTACCN ATTGTTAAAT AAACGTGTG 60
 AGACAGAÇAA A 71

(2) INFORMATION FOR SEQ ID NO: 3584:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 71
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04200

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3584:

GATCTATTTC TCTGTCTACT TTGGANATGA TTGCATAATA AATAAAATTT TACTGTTTTT 60
 TTAAAAGGAA A 71

(2) INFORMATION FOR SEQ ID NO: 3585:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 69
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04201

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3585:

GATCTAAAGA TGTTTAGGGA AGAGCTCGAC TAAAGAACAA TGAAATAAAT GGTCCAAGGG 60
 GAAGTCAAA 69

(2) INFORMATION FOR SEQ ID NO: 3586:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 65
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04202

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3586:
 GATCAAAAAT GTAAGTCTAT TGGTAGAGAT TAAGTAAAGT ATTTATTGCT ACATCATAGT 60
 TGA AAA 65

(2) INFORMATION FOR SEQ ID NO: 3587:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 53
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04203
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3587:
 GATCTGTGTT GCATTTCAAA ATAACTGGT GTGTGCTCTG CCTGGATTTG AAA 53

(2) INFORMATION FOR SEQ ID NO: 3588:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 153
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04204
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3588:
 GATCTCAGCC CAGGACGNCA AGCAAGCAGG TCTTGTCAGC AAGATTTGTC CTGTTGAGAC 60
 ACTGGTGGAA GAAGCCATCC AGTGTGCAGA AAAANTTGCC AGCAATTCT AAAAATTTGT 120
 AGTAGNCGAT GGNCNAAGNA TCAGTGGATN CAN 153

(2) INFORMATION FOR SEQ ID NO: 3589:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 29
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04205
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3589:
 GATCCAAATA AAGGTAGCTG CTGACCAA 29

(2) INFORMATION FOR SEQ ID NO: 3590:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 64
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04206

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3590:
 GATCTCTCTA CAAGAGCCCC TGCCCCTCTG TTGGAGGCAC AGTTTTAGAA TAAGGAGGAG 60
 GAGN 64

(2) INFORMATION FOR SEQ ID NO: 3591:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 64
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04207

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3591:
 GATCCTTTGC GTGACAGTCT TGTATGGAAA ACAGATGCTG ACAGAATTGT AGACTACCAT 60
 NCCN 64

(2) INFORMATION FOR SEQ ID NO: 3592:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 63
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04210

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3592:
 GATCTCGCCT TGTTTCTTAC AAGCAAACCA GGGTCCCTTC TTGGCACGTA ACATGTACGT 60
 ATN 63

(2) INFORMATION FOR SEQ ID NO: 3593:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 63
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04211

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3593:
 GATCTTTGCG AATTACAATG CATATATGTC TATTTATTCA ATATCTGTCA TATAATANCT 60
 ATN 63

(2) INFORMATION FOR SEQ ID NO: 3594:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 58
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

- (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04213
- (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3594:
 GATCTTAAGA AACTTCATA CTGTATGAAT AAGAAAATAA AATATTTAAA ACTTGAAA 58
- (2) INFORMATION FOR SEQ ID NO: 3595:
- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 64
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04214
- (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3595:
 GATCGCCAAG TTCAAAGCTG TGCACATGTG GACACTCAAT AAATGTTCAT TGGTGAAAAA 60
 CAAA 64
- (2) INFORMATION FOR SEQ ID NO: 3596:
- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 56
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04215
- (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3596:
 GATCCAAAAA GAGTCGACCN GCATTNTTTA TATTAAAAAT AAAGTCAAGA TTAAAA 56
- (2) INFORMATION FOR SEQ ID NO: 3597:
- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 52
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04216
- (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3597:
 GATCTTTGTT AATGTCTTGA TTCTGTTCGC AAAGCACAGA CTAGTGCTTA AA 52
- (2) INFORMATION FOR SEQ ID NO: 3598:
- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 52
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04218
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3598:
 GATCGCACCA CTGAGCTCCA GCCTGGGCAG CTGNATGAGA CTNCATCTCA AA 52

(2) INFORMATION FOR SEQ ID NO: 3599:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 51
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04219
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3599:
 GATCTGGAGG GACACACAGG AGACACCTGG CATAACCAAA AAATGATTAA A 51

(2) INFORMATION FOR SEQ ID NO: 3600:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 51
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04220
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3600:
 GATCGAAAAC ATATAGANAA AATAAAATGT GTGGTTGCAC CTGTACTGAA A 51

(2) INFORMATION FOR SEQ ID NO: 3601:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 466
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04247
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3601:
 GATCTAGAGG AGGATTTGCA GGAAGAGCTC GTGGAAGAGG TGGTGACCAN CAGAGTGGTT 60
 ATGGGAAGNT ATCCAGGCGA GGTGGTCATC AAAATAGCTA CAAACCATAC TAAATNATTC 120
 CATTGCAAC TTATCCCCAA CAGGTGGTGA AGCAGTATTT TCCAATTTGA AGATTCATTT 180
 GANGGTGGCT CCTGCCACTG CTTAATAGCA GTTCAAAC TAATTTTTGT ATCAAGTCCC 240
 TGAATGGAAG TATGACGTTG GGTCCCTCTG ANGTTTAATT CTGAGTTCTC ATTAAGAGAA 300
 ATTTGCTTTC ATTGTTTTAT TTCTTAATTG CTATGCTTCA GANTCATTG TGTTTTATGC 360
 CCTTTCCCCC AGTATTGTAG AGCANGTCTT GTGTTAAAGC CCAGTGTGAC AGTGTCATGA 420
 TGTAGTAGTG NCTACTGGTT NTTTAATAAA NCCNTNTTGT ATGAAA 466

(2) INFORMATION FOR SEQ ID NO: 3602:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 429
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS04248
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3602:

```

GATCTATAAA TCAAGAAAAT CCATTGTCAT AACCATTTTT AAAAGTCAAT AATTAAGACA 60
TCCTTAATTA AAAAGTTTCA AATCTAGACA CTAAATGTGT GTGAATGTAC AAAGAAAACA 120
AACCATTGCT TATGCTGTTA TATACTAGAG AAATTTTGTT TTGCTTGCTG TTTTAACTTG 180
ACAGATGAAG GACTTTAGTT GAACTTCATA TTGTAAGAAC TGTTAATAAA AGTTGTCAAG 240
TAAAAAGCGC TATATCTAAA AAGACTTTAT GAACAGTTAT TCTATCAACT TTAAAGGGT 300
TTTAAACCTG CCCAGAAATT ACCTTGGTAT CTGAAGTTTC CCTCTGTCTC CTCCCTCTAA 360
TTNAGGCTTG TTATTTGTCA TGCACCAGCA TTTGGGGGNT AATAANAATT TCTTNGGTTC 420
TNGTGGAAG 429

```

(2) INFORMATION FOR SEQ ID NO: 3603:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 419
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS04249
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3603:

```

GATCTGTTGT TTGTTTTTAA GGTGGTGTTT TGTTAACTTC CAGCAGGATG CAGAATCTAA 60
CTGGTAAACC TATAAATTGG TCAAATTTNA CCCATGTTGT TTCTTTGAAA ACAATGTATA 120
TNCTCTAATA TTTGGATATA GGGTATATGA NCATTAATGC AACTTAATTG TATTTCCAAG 180
TACAGTACAT ATGTNCAGAT TTCTTTTTCT AACCTTATTT AGTGATAGAG GTGTGGTAAA 240
CNCTTCCATT ATGTTTATGT ATTANCACTG TAATTTTGTC ATTTTNATAT ATTTNGATGT 300
TATGTAAC TA GATGCATACA GGATTAGGTA TTTCTTCTG TATTCCTTTT TATGTGGAGA 360
TGATATTTTT ACATAGCAAA GTATTGTAAT GCATTAATAA TAAATGGTCA ACCATTAAA 419

```

(2) INFORMATION FOR SEQ ID NO: 3604:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 419
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS04250
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3604:

```

GATCTGCTAG TTCCAGGCCT CTAAGACAGG AACGTATGTG CCATAAGTGN GTCTACTTCA 60
CAGACTCAAT GAGGCAGAAA TTATTGTAGT TTTCTCCTAT TTCTTCTGCA CCCAACTTTC 120
TNCTTGTTAT TCAAAGGCCA GGCCATGTAC ACTAACGTCC TTGAAATTTG CAGTTCTGTA 180
TGCTTCTATT CCAAATCATT CATTACCAAT AAAAACGGAA TACCACCCTT TCCATTTTAT 240
AGNCCTCATC CCCTATTTCT GTCAGACAGT TATATGACAG GGTGGNCNGN GGGCCTCTTA 300
GTTTCATCAA AGTCTNNCCT GNAGTGCTAG NCTTTCAGAC TCTTATCACT GGAAATCNTT 360

```

AAGGGTTGAG GGGGNTTTAN TTTCCAGNA CTTGTGNAGG GNTTCAACTG TCAAAACTN 419

(2) INFORMATION FOR SEQ ID NO: 3605:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 404
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04252

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3605:

```
GATCCGACAC AGAGAACAGG AGGNACTAGA GGCGACANAN AGNAGGGCTT TAAGCCAAAC 60
TACATGGAAA ATGGTGATAA AAGAAAATNT GGCTGAAGTT ACCCGAAGTT CAGCTTGCAG 120
TGTAATTCAG AAGAGTTAAG ACCAGAAGTA CTGGAATCAT ACTTCCTTTC AGTCTTGCCA 180
CTTGCCTAGT GAGGCTTTTC CGAACCTGGA AGGAGACGTC TAGAAATCCC AACTTTGCTG 240
TGTAAGGACC ATTAGCTGCA AGTCAGTGGA AGTCTATAGA AAANAGTGTG AATTCCATAG 300
TGGTCTTGAC TTCTTAGCAA GGATTTGGGA TAAGTCTAAA ACTTCAGACT TAAAGCTTTG 360
AAGCATGTTA ACTGCATGAN ATATTAANCA TTTCGAACTT CAAA 404
```

(2) INFORMATION FOR SEQ ID NO: 3606:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 403
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04253

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3606:

```
GATCCATGAA TTAACAGAGG CATATATTTA AAATGAAATT TAATGAGCAC TTAGTGACTT 60
CATTTGTTCA AGAATATTTG ATTTCTTATT GTGTGCATGG GAGGTTTACA AAAGACAGAC 120
TGTCCTATG CTTGTNCAGC TTACAATCTA TTAACTATT AGAGGCCCTG TGAGATGTAG 180
GCAGTTATTT ACAGATGAGA AAATAACAC AGCAGTGGCA ATGCTGGGAA TGGCCAACAG 240
GCTTGGAATT CAACTCAGTT TAGCACCAA GCCAGTNCTA TTAAGACCTG AAGTTCAACA 300
GTGGATTCTT TACCAAATA GTTTTAAAG TATGCTCTAA GGNCCAATGT TTTAATGAA 360
ATCTTGGNTT NCAAGTNGG NNTAAAAGGG TTCTGAGCAT AAA 403
```

(2) INFORMATION FOR SEQ ID NO: 3607:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 396
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04256

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3607:

```
GATCTTACTT CGTTGACCCA TATTTTCCC CTGACCAAGT TACCTGTAAA CTGGAATTTG 60
CAAGGGGATG CTGTGATGAT AACCCCTTTC TATTGCTGTG ATGTTTCATAT AACCTGGGAA 120
ACTGAGAGAA GGGGATGTGT AAATAAAAGC TTAAACATTT TAGTAATGTG TTAAATGTC 180
```

```

ACTCTCTCTT ACCCTGTTTC CCTTTTTTGC CAGATGATGA TTTTTTTATT TTTATTTTGT 240
ACTTTACTGG ATGACTGTGA AGCGNTGAGT ATTGGGTTGG GGTAGGTGTG TTGATTTTGA 300
GAGTGCATGT TAAGACCTGA AGGGGAAC TA CTTGAGGATG ACTTAAGAAG CATCCCATGC 360
AAATATCTTG TTTTGGCCNG AATAAAATAT TTCAAA 396

```

(2) INFORMATION FOR SEQ ID NO: 3608:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 392
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04257

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3608:

```

GATCTGCCCCG CCTTGGCCTC CCAAAGTGCT GGGATTACAG ACATGAGCCA CCACGCTTGG 60
CCGGGATAGT ATATTTTTAT AGCACTTCCC CTACTGATTG CTGCCTTCTC TGTGGCTACA 120
AGGGACCCAC AGAATTACAG GGAAGTTACA GGGNNGCAGG TTTCATCTCA ATATTGGGAG 180
AGATTTCAAA CAATCACACC NNNNNNNCGA AGGAGTGGGC TGTCCTAGG AATTTTTATT 240
CCCAGTCCGT CAGGAATTTT GTAGAAGGGC TTCATGTGCT GGTACCAATA GGACAGGAAG 300
ATTTTAATCA GCTTTACTAT CTATGTTTTT TTATGGAAAC TGTGTGTATG TATACATACA 360
TTTTCCAAAA AGNANAAATT AAATGATTAT AG 392

```

(2) INFORMATION FOR SEQ ID NO: 3609:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 392
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04258

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3609:

```

GATCCGCCCA CCTCCGCTC CCAAATTGCN GGGATTACAG NCCTNAGCCA TNCCCACCCG 60
GCCAATAAAA ATTTTTTTAA AGCTAAAATT GACTCTCATG CAAATAAGAT AAAATGAACA 120
TATGTTAAAT ATTTTAACTT AATGAGAGAA ATAGTAAGAT GTTACCAGTT ACTTGATGAT 180
GGAGGAAAGG ACGAAAAGCC AAGGAATACA TGGGAATGCAG CTCTAGGTGC TGAAAAAGGC 240
ANGGAAAGGT TCTACGTTAG NGCTTCCAGA GGGAGCTCAG CCCTGTCANC ANCNTNGTTT 300
CAGCTCAGTC ATATCGNTGT TTAGACTTTC TGGTCCCCAG NGCTGGGCGG GGGATATATT 360
TCCTGCTGTT TTAAGNCNCC NNATTTTGTG GN 392

```

(2) INFORMATION FOR SEQ ID NO: 3610:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 391
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04259

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3610:

```

GATCCTAAGG GGTTCAAGGG GACCCTACCC CCACCTCAGG TTGGGCTTCC NTGGCCACTC 60
ATGCTCCACA CCAAAGCAGG ACACGCCATT TTCCACTGAC CACCCTCTAC CCTGAGGAAA 120
GGGAGACTTT CCTCCGATGT TTATTTAGCT GTTGCAAACA TCTTCACCCT AATAGTCCCT 180
CCTCCAATTC CAGCCACTTG TNAGGCTCTC CTCTTGACCA CTGTGTTATG GGATAAGGGG 240
AGGGGGTGGG CATATTCTGG AGAGGAGCAG AGGTCCAAGG ACCCAGGAAT TTGGCATGGA 300
ACAGGTGGTA GGAGAGCCCC AGGGAGACGC CCAGGAGCTG GCTGAANGCA CTTTGTGACA 360
TGTAATGTAT TATATGGGGT CTGGGGCTCC N 391

```

(2) INFORMATION FOR SEQ ID NO: 3611:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      386
(B) TYPE:        nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04261

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3611:

```

GATCCGACCG CGTGNTGCCG CTCTGCTCTC TCATACGCGT GTATGTTTGG TTCCATGTCA 60
CAGCCCCCTA GGAGCCAGTN ATGCTCGGCC TTGCGCCCGT NCCACCTCCC AGGCCACCCT 120
TCCTGGGCTT CTGGGCCACC TGCCCTCGGG GGGCCCCTGC NAGGGTGCCT GGNGTTCCCA 180
CGTGTCCCGG GGCTTTTCCA GGAAGCCCGA GCCCAGGACC TGTGGCAGA GTTGCCAGGG 240
TTACATTTTT NAAGCACCTG CTCCTTTTNT TGCAGTGTAT TTTCTACAAC CAGATTGTAT 300
TAATATTTTT AACTTTGCCC TTTTAAAAAA TATACCTAAT ACAATATATT TAATTNTGAA 360
TTAAACTCTT AAACCTTTTCT TCCAAA 386

```

(2) INFORMATION FOR SEQ ID NO: 3612:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      375
(B) TYPE:        nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04264

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3612:

```

GATCCCTTTG GGGCATGAAG TGTGACAAGT GTGGGCTCCT GAAAGGANTG TNCCAGAGAA 60
ACCAGCTAAA TCATGACACC TTCAATTTGC CATCATGACG CAGACCTGTA TACATTAGGN 120
TAAATCTGAA TTTCCACTGC TTTGGAGAGT CCCACCCACT AAGCACTGNG CATNAAAACA 180
GGTTCCTTTG CTCAGATGAA GGAAGTAGGG GGTGGGGCTT TCCTTGTTGTG ATGCCTCCTT 240
AGGCACACAG GCAATGTCTC AAGTACTTTG ACCTTAGGGT AGAAGGCAAA GCTGCCAGTA 300
AATGTCTCAG CATTGCTGCT AATTTTGGTC CTGCTAGTTT CTGGATTGTA CAAATAAATG 360
TGTTGTAGAT GGAAA 375

```

(2) INFORMATION FOR SEQ ID NO: 3613:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      372
(B) TYPE:        nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04265

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3613:

```

GATCCTAGAC CAGCATGCCA GTGTGCCAAG GCCACAGGGA AAGCGAGTGG TTGGTAAAAA 60
TCCGTGAGGT CGGCAATATG TTGTTTTTCT GGAACCTACT TATGGTAACC TTTTATTTAT 120
TTNCTAATAT AATGGGGGAG TTTCGTACTG AGGTGTAAAG GGATTATATAT GGGGACGTAG 180
NCCGCNNTCC CNNGTGTTGT AGGTTTCTCT TTTTCAGGCT TATACTCATG AATCTTGTCT 240
GAAGCTTTTG AGGGCAGACT GCCAAGTCCT GGAGAAATAG TAGATGGCAA GTTTGTGGGT 300
TTTTTTTTTT NACACGAATT TGNGGAAAAC CATTAAANTCA TTCAAATAA TAANCTNTTT 360
TTATTNGGGA AA 372

```

(2) INFORMATION FOR SEQ ID NO: 3614:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      372
(B) TYPE:         nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04266

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3614:

```

GATCTAAATA TATATTTTGT ATATTATAAT ATTTTAGGAA TAGCTTAATT AAGANCTCAC 60
AGACTTTGAC AAAGTGGTAA CTAGACTTTT AATTACTAGA TTCTTCAAAT TAGGCTTAAT 120
GCCTGCTAGC ATGCCAATCC AATCCCATGA CTGATGTTAT TATACACTAT GGCAAATACA 180
AAGTTGTAGT ATTATGGTTC TTGATGGTGT GATTTACTTA TGTAAATTAT GTACAAATTT 240
AAGTTCAATG AAACACTGAT TTAATGTACT GAAAGGTAAA TAGTACCATA GTGAATTATT 300
TCCTGTCTTG CCTTAGGTTT ATTTTATATNA TCTTCAATAT TAGANTAAAT GCTAAATTAT 360
TTTCATTTTA AA 372

```

(2) INFORMATION FOR SEQ ID NO: 3615:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      370
(B) TYPE:         nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04267

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3615:

```

GATCTGAACCT CTTATACAT AAGAAGGTGT GTATATTAAT CCAATTATGG ACTTAAATA 60
TTTTAAAAGT ATAAATACCC TTATTTGCTG CAAAGACCAG TGTGTAGGCA TTTGCTTTTT 120
AGCAATATTT TTAAGTGCTC CATTTTAATG CCGAGGAATA AGTCTTTTGG CAACACAAAC 180
TGGTCAATAA TAGGTAATGC AGGTATGTTT AGGTTAAGCC AACAATGTTT TGCATTTTTA 240
TGCTTATTTT CTGTCAACAC TAATGAAGTC AACATTGCCT GAATGTCTGA ATAATGAAAC 300
ACATCCCNCT TAAAAGTAT GTAAGTAAA AAGAAATAAA AAANAAATTA AAAGGTAGGT 360
TTTTTTTAAA 370

```

(2) INFORMATION FOR SEQ ID NO: 3616:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      370
(B) TYPE:         nucleic acid
(C) STRANDNESS:  single

```

(D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04268
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3616:
 GATCCCATTA TATAGTATGT ATAGCTGAAA TCTGTAATTC AATCACTTTT TCTCTTTTAT 60
 CCTCTAACCA AAAAATTGTT TAATTTTGCA TCCCAAATGT TTTAATCTT TGTATATTTT 120
 TNAAAAATCC NTTTCTCCTC AGCANTGCCT TTTTNGTGGT TGTAATAGA CTTACTTGCA 180
 CTTTGAAGAT GAGTTACTCC TTGTCATCTT ACAAATATGT GATATGGTAA TTTNCATAAC 240
 AGATGTCAGT TTTGANCCAA GAATTGGTGA TTTGTTTATA AGAAAAAAC TGGCTTCATT 300
 NCTGTGNAAT TGCTCTTTGG NAAATTNCTN NTTNACACGT GTAAGCCAAC CTGAGGTACC 360
 GTGATGGGTN 370

(2) INFORMATION FOR SEQ ID NO: 3617:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 368
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04269
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3617:
 GATCCCTGCT CAAGCAGCAC AGAGGAAGGG GCAAGACGTG GCCTGTAGGC ACTGTNTCAG 60
 CCTGCAGAGA AGAAAGTNAG GCCGGGAGCN TGAGCCTGGG CTGGAGCNTT CTCCCCTCCC 120
 CANTTGGACT AGGGGCAGTN TTAATTTTNA AAAGGTGTGG GTCCCTGTTT CCTCTTCCAG 180
 GGGTCCAAGG GAACAGGAGA GGTCAC TGGG CCTGTTTTTT CCCTCCTGAC CCTGCATCTC 240
 CCACCCCGTG TATCATAGGG AACTTTCACC TTAAATCTT TCTAAGCAAA GTGTGAATAG 300
 GATTTTNACT CCCTTTGTAC NNCNGNCTGA GGAAACGCAA ATAANAAGGG CAACATGTTT 360
 CTNTTAAA 368

(2) INFORMATION FOR SEQ ID NO: 3618:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 364
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04270
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3618:
 GATCGGCCCA GCTCCTGAAC TGTGANGAGG CCATTCATAT GGCATTCCTG GAACAAAACA 60
 CTGCACAGGT ACCAGCCTCT CCACTCCTGA CCGGGTTGGT GCTGAACAGT CAGGGATTGT 120
 NCTTGAAC TA GACTTCTGAT GCTTCTTGCA ATCTTCTTTC ATCTTTCCCT GAAATACACA 180
 AAATAAACAA NTACAATAAC AAATAGTAAT TAANTGACTT TCAGGATAAC ATCTAGTTGT 240
 TCAGACTTCA CCCTTCACAG GTGTGTGTGT ATGTGTGTTT ATGTCTGTAT ATTGANGCAN 300
 TTTGAATTTA TTTTACTGTA TATNTNCTGA GTAAANGACT GANATGNNCT NCTTGGGTCA 360
 GAAA 364

(2) INFORMATION FOR SEQ ID NO: 3619:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 363
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS04271
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3619:

```
GATCTGAAGC CTTCCATAAA TNAGAGGCCA TTCATATGGC ATTCCTGGAA CAAAACACTG 60
CACAGGTACC AGCCTCTCCA CTCCTGACCG GGTTGGTGCT GAACAGTCAG GGATTGTTCT 120
TGAAGTAGAC TTCTGATGCT TCTTGCAATC TTCTTTTCATC TTTCCCTGAA ATACACAAAA 180
TAAACAAATA CAATAACAAA TAGTAATTAA ATGACTTTCA GGATAACATC TAGTTGTTCA 240
GACTTCACCC TTCACAGGTG TGTGTGTATG TGTGTTTATG TCTGTATATT GANGCAATTT 300
GANTTTATTT ACTGGTATAT GTTTCTGAGT AAAAGNCTGA AATGNNTCNC TTGGNNCNGG 360
AAA 363
```

(2) INFORMATION FOR SEQ ID NO: 3620:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 361
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS04272
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3620:

```
GATCCAGGAT GTACTTGGAT GAGGAGGCCCT GGCTTATCTA GGAAGTCGTG TCTGGGGTGC 60
TTATTGCTGC TCCATACAGC TGTACGTCAG CCCCTTGGCC TTCTCTGTAG GTTCTTGGCA 120
GCAANNNGC AGCTTTCACT CAGTGACACA AGTAATTACT GAGTCCTAAT TTGATAGCCA 180
CCAAGTGTAC CTGGGTAGGC AAAGTCAGAT TTTNGAGGAC CTTTTTCCTG ATTTGAAGTT 240
TTAATTACCT TATTTTCTNT TATGCTTTNC CTCTGTCTTG TAATCNTNCT CTTCTTAAAA 300
ANCTCCCTA TAAATTCAAT TAATTTGGGT TAATTTTAGG ATAAACCCAT TTANTTCNAA 360
A 361
```

(2) INFORMATION FOR SEQ ID NO: 3621:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 359
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS04273
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3621:

```
GATCCAGATN CTTTCGGATG TCAGGGATAT TCACATTGAC ATGTCTNNNN AGTGTTCCAG 60
GAGATTTTAG TTTGAATAGT ACAATTTTTT CTTCTTACAA CAAAACCTAG AACGGCTTCT 120
AACTTATTTT TTCATGGCCA AGAACTACC CTAACCTATC TCGATAAATA TTTAGTTCTG 180
TCTTATTTCT AATGTGTAAA ACAGGTTTTA AAAATAATAT ATAGATTTTG CATTTATAAA 240
AAAAGATTTA ATTTATAGAA CCAAACNGA ACATATGTTT AATTTAGCCT AATCAGAAGG 300
TTACAGAAAA AGTTGCTGTA AAGATAGAAT AAAGGTATT GTACTGGTCT GTTTTTAAA 359
```

(2) INFORMATION FOR SEQ ID NO: 3622:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 356
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04274

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3622:

```
GATCTACAGC AGCTGCATCG AGGACTCCCA CAGAGGTGCT ATAGGGCTGC GCATTGCACT 60
GGCCATCTCA GCTATAGCCG TCTTCCTGGT CTTGGTGTCT GNCTGTATCC TTCGATTTGG 120
CACCAGGTCT CTCTGCAACT CCATCATCTC CTTGAACACT ACAATNAGCT GTNCTGAAGC 180
CCAGAAAATT CCATGGACAC CCCCTGGAAC TGCTCTGCAG TTTTACTCCA ACCTACACAA 240
TGNTGAAACC TTTTCTTGGG TGAATTTGGT ATTGTGGTGT GTGGTCTTGG TGCTCCAGGT 300
CGTGCAGTGG AAGTCTGAAG CCACCCCATC CCGGCTCTG GAGAGGGGTG ACCCTN 356
```

(2) INFORMATION FOR SEQ ID NO: 3623:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 420
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04275

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3623:

```
GATCCCCCTT GNCAGACACC AAAGCTGTGA ACAGAAAGAC TGCCTGGCCA GCAAACCTTG 60
GGACATCAGC CTNGCCAGC CTGAAAGCAT CCGNAGTGAC CTAGAGAGTT CTGATGCACA 120
GTCAGACGAT GTGCCAGACA TCACCTCANA TGAGTGTGGC TCCCCCGCT CCCATACTGC 180
AGCCTGCCCC TCGACCCCCA GAGCCCAAGG TGCACCGAGC CCAAGTGCCC ATATGAACCT 240
CTCTGCCCTA GCCGAGGGAC AAAGTGTCTT GAAGCCAGAA GGTGGAGAAG CCAGAGTATG 300
AAGTGGAAATG AATGCTCCTG TTCTGAGANG AACTTTGTAA CTGCATCTTT TGGAATTTTT 360
TTTTTTTTTTT GCCCAGGGGN NAGGGTTTNT GGTTTTTTAAT TTANAGGNCN TTTGGGCAAN 420
```

(2) INFORMATION FOR SEQ ID NO: 3624:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 352
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04276

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3624:

```
GATCAGAATT AAAGTAGTAC TATGAAATGT CCTTTTGAAT GTNAGGTCAA GAAATCCATG 60
TACAGAGTCG TGCACTTCAT TGGCTGTAAC TGTCAAACTT GCCTTGTATT AGAAGTTAAA 120
TCCCATCGTA AATACATCAC GAGGCCAGCT GTGTGATTTC TGAGACCTAG ATGAGAGTCC 180
NATTACTTCA AGCNTTGATT CAGTAAATNT TAAGCAGCAG AAGNCTTCGG ATGGGTTGAA 240
AATCAATNTT ACAAGGTTTT AACTCATAAA CCCATNNGGG NTTTTTTTTT TCCTCTGCAA 300
NNGGTTNCTA AGGCTANTCC NTGGTAACAC TNTGGGAAAN AAATNTGGAG GN 352
```

(2) INFORMATION FOR SEQ ID NO: 3625:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 348
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04278

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3625:

```
GATCTCCAGT NGGCCTTTGC AGGCCCGGCC TCCTGCCTCT NGAAGGCCTA NCACGGGCCC 60
GGCCTCGGCC TCGGCCTCAC AGCAGACTCT CCACGCCAG CTAGCTCTTG CCTCACTGCG 120
GCCTCCCCAG TCCAAAGCTC CTGCCTTTNG GCCACTTCGG CAGGTCCAGC TCCTGCCTGC 180
CAGTGGCCTC TTTAGGCCCA GCTCATTCTT CACGTCGGCC ATTCCAGGCC CCGTTTTTCC 240
CTTCCGGCAG CCTCTTGGCC TCTAATTTGT TTATNTTTTG TGTATAAATC CCAAATATT 300
GAATTTTGA ATATTTCCAC CGGGGGNGTA AATATTTTGA TAGGTAA 348
```

(2) INFORMATION FOR SEQ ID NO: 3626:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 347
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04279

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3626:

```
GATCTTTATT AAGACAGTGG AAAGTATACT ATTAAGTCAT CATAGTCTTT TGGAGACTTG 60
TCAAANACAG CAATNAGAAA ATAAGACCTA GCATACCGTG GAGAACCATT AAAAATTTNA 120
NANGAAACAA CAAGTATTAT GTCAACTTAC TTCAAAGGCG AGTTTTGGGA TTTNATGCAG 180
TAAAGATTCC CTGTTTTATG ATTGTCCCTT GAAAGTCAAA TGGGGGCCTG TCCATTGTCC 240
TCTATTAANC TTNCAGAACT GTCACCAACA AATTTGAGTT GCCTTGCTA GGGTTCTGGG 300
TAGTGAAGAT ATTNATNAT ATAATNAAAT AACTGTTAG TACTTAN 347
```

(2) INFORMATION FOR SEQ ID NO: 3627:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 341
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04280

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3627:

```
GATCAGAGGA GGAGTGTGAG TGTCCTCATA CTCACAGCAA AAGGAGGGAA TTCAGGAGAG 60
GATTGAAGAA GCGGTTCTTG TTTTAAAGGC ATTTGCAATC ATTGCTGGAG AGACAGAACC 120
AACAGATGGG GAACAATGGC CAGGGACTCC AGGCCTGATT TAAGCCAATG CCGCCCTGTG 180
GTCTTTACCC ACGAATGGTG TGGAAAATNA GAGCAGGGAA GAGGATTTAC TCACTGGCTG 240
TGGAGTTAGG TCAGAAGGGG GNTGGAAAGA TGGAACCGTA TGGNTTTGGG GACATTTCTT 300
AATCTNTAGG CTTACCTTC CTTAACTGAA ATTAAAAGCC N 341
```

(2) INFORMATION FOR SEQ ID NO: 3628:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 341
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04281

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3628:

```
GATCGACCTG TCATGTTTTT AAGGTTATCC AGGCTGTATA TCTCTGGAAN AGAAGGGAAT 60
GGCAAAGAGT GGGAGTCTGA GTCAAGTTTG GTTTTGNTTT NNNAAGAGAC AAGGTCTCTG 120
TAATCCAGGC TGCAGTACAC TGGCATGNCC ATGGCTCACT ATAGACTTGG GCTCAGCCAA 180
TCTTCCTGCC TCAGCTCCTT GAGTAGCTGG GNTTGGTTTT CCCCAGGGCC ATATGTCAGC 240
TTATTTACCC TACTCACTTG GTGTNTCCCA GNCTGCCAGC CATGCTGTTC ATCCAGTATC 300
TTCTNNATGG GGATTACCTA TTAAGGGGAC TAACACAAAA N 341
```

(2) INFORMATION FOR SEQ ID NO: 3629:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 340
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04282

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3629:

```
GATCATGGAA CCCCTCTTCC GGCAGTTGGC CAAATGTGTC TCCAGCCCAT ACTTCCAGGT 60
GGCAGAGCGA GCTCTCTATT ACTGGAATAA TGAATACATC ATGAGTTTAA TCAGTGACAA 120
CGCAGCGAAG ATTCTGCCCN NNCATGTTTC CTTCTTGTG CCGCAACTCA AAGACCCATT 180
GGAACAAGAC AATACATGGC TTGATATACA ACGCCCTGAA GCTCTTCATG GAGATGAACC 240
AAAAGCTATT TGATGACTGT ACACAACAGT TCAANGCAGA GAAACTAAAA GAGTTGCTAN 300
AANTGNAAGA NCGGGNNGAN GCATGGGTTA AATTAGAAAN 340
```

(2) INFORMATION FOR SEQ ID NO: 3630:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 339
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04284

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3630:

```
GATCTGCCAC ATGTNTGAGG GTTGCAGAGC CCGCTGTGGA GGTAAGATTG GAAACACATG 60
NAGCAGAGGG AAGACATTGA AGAAAACATC TCTNCTGGAA TATTTGGAAA AGAACACTCT 120
TCTGGACCTG GTTGAAGCAG GAAAGATGGA GGCAAAGTAG TGAAATAATC CAGAATTTCA 180
ATGCTTTTNA ATGTNCTTAG TGATACTGAC CTGTGATAAT ATAATTCCCA GGGAGGACTG 240
GGAACCTTAT CTCTTGAGAT ATTTGCATAA TTTATTTAAT TTAAGCCTCA TTCTCCTTTT 300
GTNCATTTTG GTAATAAACT GGATTTGAAT TGTGAACAN 339
```

(2) INFORMATION FOR SEQ ID NO: 3631:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 339
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04285

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3631:

```
GATCCAGCCA GTATAGAACT AGCTCTGTAG GGGTGAGGAG GACTNTGCTA TGTATCATCC 60
TNGATTGTNT TCCTTCAAGG AGCATTGCAC TTGCCTTCCC AGACCTTCCA CCTTAGGTTC 120
TGCTGCAAAA AGCACCAGTG CTGAAGATGC TGCAAGACCA AATCATAGCT CATAAAATCA 180
GGTCCTGAGA TAGTTACCCA TAAAGAGGAA TCCTTTGAGT GTATGCCATT GGTGAGCCGA 240
TGAGCATGGA CCATAGAAGG GCTCAATGTA GANTGAAACT ACCCGTGTGT AAAAAGAAGN 300
TTGGNTTAA ATGGCTACTT TGGATGGGNA CCAGTGTCTN 339
```

(2) INFORMATION FOR SEQ ID NO: 3632:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 337
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04286

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3632:

```
GATCAGAGGG GAAACAAACG CCAAGGGGTT GGGAATGGGT CGGCATCTGG AGTCTGAGAC 60
AGCTGCCCTC CTGCGTCAAG GGCTGGGGGC CTCAGCTTCC ATCCTGTGCC AGCCTCCATG 120
TGGACAGCTC AGCTTATTGT CCACCACCTG GAAATNCCTC GAAGCTTCAT NNGTCCAGGT 180
CAAGAGAATC CTGTTCCCAG ACCTCTGCCC AGCCAGGCCT TCCCAGCTCA GGGCTGACTC 240
CTGCACCAAG TGACGCACTT TTNATAACTG GTCTACCAAT GNCTCCCCTT CAAGTGAGAA 300
CTACCCCTTA CATTTAGGAG TGTGGCCCCG CAGTAA 337
```

(2) INFORMATION FOR SEQ ID NO: 3633:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 337
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04287

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3633:

```
GATCCCTGTA TGCNGCCAAG GATGGGACTT CCAGCTAATG AATTTGTACA TGCAGCCAAA 60
TTTACAGGAA TTTTTTTTAA AGGCAGAAAA ACTTGAAATA CCAACATTCT GGCAAAAAAN 120
ANTCAGTTTT ATGANGAGTA AGTGGAACCT GGGNTGCAGG ANCAAAAGAG GGAAATGTTG 180
GGCAAACATT TTNNTGGGAG CTCCCTTCGC TGTGTGTGCAG CAGAAACAGA TTCTNAGTTC 240
ATTTTTACTC CCACTGTATT ATAGTTTANC AAAANTNGTT TATATCTTGG AAAAAAANCT 300
TTCTGTTTAA AAAANTTAAN CAAGTGAATG TNGGAAN 337
```

(2) INFORMATION FOR SEQ ID NO: 3634:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 390
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04288

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3634:

```

GATCCCACTG ATTGGCCAGC CGAGCGAGAA CCAGGCTGCT GCATGGCACT GACCGCCGCT 60
TCCAGCTTCC TCTNAGCCGC AGGGCCTGCN ACGCGGGCAA GCGTGCTGCC TCTNTNCTGT 120
GTCGTTTTGT TGCCAAGGCA GAATGAAAAG TCCTTAACCG TGGACTCTTC CTTTATCCCC 180
TCCTTTACCC CACATATGCA ATGACTTTNA ATTTNACTN TTGTAGTTTA ATCCTTTGTA 240
TTACANCATG AAATATAGTT GCATATATGG ACACCGACTT GGGAGGACAG GTCCTGATTG 300
TCCTTTCTCC AGTGATACATG TTTTACTCAC ANATAANATT NTTTCAGCAA GTAAAGNGGG 360
ANNGGGTTTT GGTNGNGNGG NGTGNGGTGN 390

```

(2) INFORMATION FOR SEQ ID NO: 3635:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 73
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04289

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3635:

```

GATCTGGCCA TTTGGTACAT AATCCAGCAC AGATAAGCTG GGTGGTAATG ATAATAAAAA 60
TGGTTTTCTC AAA 73

```

(2) INFORMATION FOR SEQ ID NO: 3636:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 328
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04290

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3636:

```

GATCACCTGG GTTTCCTTTAT TTATCGACTG TGTCATGACA AGGAAACTTA CAAACTGCAA 60
CGCAGAGAAA CTATTAAAGG TATTCAGAAA CGTGAAGCCA GCAATTGTTT CGCAATTCGG 120
CATTTTGAAA ACAAATTTGC CGTGGAAACT TTAATTTGTN CTTGAACAGT CAAGAAAAAC 180
ATTATTGAGG AAAATTAATA TCACAGCATA ACCCCACCCT TTACATTTTG TGCAGTGATT 240
ATTTTTTAAA GTCTTCTTTC ATGTAAGTAG CAAACAGGGC TTTACTATCT TTNCATCTCA 300
TTAATTCAAT TAAAACCATT ACCTTAAA 328

```

(2) INFORMATION FOR SEQ ID NO: 3637:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 328
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04291
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3637:

```

GATCCTGTGA ACCGTTACTT TGCCTAAATC ACTTGAGACT TGAGTNTTTA ATAACAAAGC 60
ATCAATATTC ACTAAAGTCA ATCTNTTTTN ANTTTCTGTN ACTTGGCTAG AAGCTCTTGA 120
CACTAAGGGA TTAGTGTTAA TTTTCCCTGG GGGTGTTCCTA CTAGGGCATT ACTGTATAAT 180
GACTTGATGT TGCCACATAG ACTTCAAGAT ATATAATATT TTNAGGATTT TTTTGATTGG 240
CCTATGTTTT ATTGCATAGT GTGAACCGTG TAAAGCTTGG TTAACCTGTA TATAGATAGC 300
TTATTGTTGA CTAGTTATAG TGTATTTN 328
  
```

(2) INFORMATION FOR SEQ ID NO: 3638:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 326
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04292
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3638:

```

GATCCTTTCC CTGGATACAT AACCCTAGTA GATAATGTGA CTGCAAGATG TAATGNCCAA 60
ATCCAACCTA CTGCAAATNT TACTATGGAA ATCTCAATGC AAAAGTAGCC TTTGTNATTT 120
TTTTTTTAAA CCGTCTCCAT AACAGANCAC TTAGAATTAT TAGCCATTTG CTGCAAAGTA 180
TTTGTTTTAA AATGTCTGGC ATATACACCA CTAACATTTA ANTGCCCAAC ATTCGTCTA 240
TACGTGAAAA ACCTAGANGA AANGCCCTGT TGGAGTTTTG ATGTAGAGTG CAATANTACA 300
TCAATAAAGG TATTTTAAAA TGGAAA 326
  
```

(2) INFORMATION FOR SEQ ID NO: 3639:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 326
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04293
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3639:

```

GATCTGTTGT ATGTAATAAG TAACACAGAG TTTTAAACA AATTAATTAT TTAGCTTTAT 60
TGAAGTTTGT NTTTTNCCTT CCGAACCTGG AGTATCATAT TATAACAGC AGTTTCACAC 120
CAGAATAGCA GTGCCCTTNC TTTTGTACA TACTGATTGG NCCTTTCTTT ACTGTTACGT 180
GGACACTTTC TATGTTAGTT TTGATGCATA ATTCTTTGAA TCCTTTTATA CAACTAGAA 240
TGTATGTGTA AGAATACCTG TCCCTGCAAT GTAGTAATA CAACTTATT TTAAATAAAA 300
TAGAAAACCT GTTTTTCTAA GCTAAA 326
  
```

(2) INFORMATION FOR SEQ ID NO: 3640:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 325
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS04294
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3640:

```
GATCCAAGAG TTTAGTGATT TCAAAAGCCT TGGTCTCAGG AGAAGATTAA ACTTTCATAT 60
TGGGCAGTGG TTCACCTTAA AACACACACA TACACACACA AAACAATTTT TTAAGAAATC 120
CTAATAAGTA ACATACCCAA AATGCTCTGT CTTGAGTCAT GAGAACCATC AGTTCTTGAT 180
ATTGTCTAGA CTTGCATCTA GAGCTACGTT GTAAAATTCT TTTAGGCATG TGTTAGATTT 240
CTGTGTAAAC TTTGTTTAAA TGTAACTTC ATACTACATT GTCAGTTTTT GTCTTAATAA 300
AACTATAGAT TTATAATCCC TGAAA 325
```

(2) INFORMATION FOR SEQ ID NO: 3641:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 391
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS04295
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3641:

```
GATCGGAATT TCCACCAATC AGCGGGAAGC CTCGGCCCTG TAACTGCTAA TGGGAGACAG 60
CAGCGCCACG CCACAGGCTT TTCCCCTGGT TTCGGGAGGG NTGGGGAGCC AGGTGGGGCT 120
CCCGNCCAGA CCCTTTCCCG AGGTCCGNCC TCTCCGCCCT NTCTNTAAAT TCCTCTTTTG 180
AGTNCCCTCC CTTCCGGTTG AGAGGCGGGG GTTGGCCCGT AGTTGTACAC TCAGTCACCC 240
TGAAGTGTGG AGNGGNGGG NCTCCNTTGT GGACTGATTT GCGTGGGGAT TTGGTNTGTT 300
TTATTAAGGG ATTTGAAAAA ATTCAGATGG ACTTNACTAG TATGGACTGT TNGGGTAAAT 360
ATTNGCTTNC NGGGTTAATA AAATGGACAG N 391
```

(2) INFORMATION FOR SEQ ID NO: 3642:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 324
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS04296
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3642:

```
GATCCAGTCA ATACATGCAG ACCAGTAAAA TCTGATTTGT GCAGAGTTCT CCATCTGACT 60
CTCACTTATT TCTGTAGATA TATACATATA TAAATACAAG TATGTNCTTA CGGCACAGTA 120
TTGCTGACCT TTAGTTCGAG GTTTTGTCGG TTGTTGTTTA TTTTCTTCCT CTTGCAAGTG 180
CTATCCATGT GAGTGTGTGA AGTTTCTCTA ATAAGTAAAA CACAGGCCCT TTTCTTGTT 240
TGTTTTGTGT TAGTTTATTG TAAACAGCCA TTTGTTGTAA ATNATTATTG GCATTAAATT 300
ATAATTTATG ATTTTCAAAG CAAA 324
```

(2) INFORMATION FOR SEQ ID NO: 3643:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 323
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04297

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3643:

```
GATCCAGTCT AGGCCCGTAT GTTGCATTTT GCTGTCATGT CTTCTTAGTC TCCATCNCAT 60
CTCAGTGGTC TTTTCTTTTC CATGACTGTG ACAGAAATGA TTTGTATCCT TCATATATCT 120
GCAGTCACAT GAAGTCTATT TGTCCCACTA CTGGTGACGT AAATTTTGGT AACTTGGTTG 180
AGGGTGGTAC CGTCTAGGTT TCTCCATATT AAGTTGCTAT TTTNCCTTGT GTATTTAATA 240
AGTATCTTAT AGGGAAATCC TTTGAGACTA TGTAAATATC ATATTACATG TATTNGCCT 300
GTTTTAGCAT CTTTGAAGA TAN 323
```

(2) INFORMATION FOR SEQ ID NO: 3644:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 320
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04298

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3644:

```
GATCTGGAGC ACAAGGAACT CCCATACATT CCTAGTGGGA ATGCCTAATG TTAGAGTCTG 60
GAAGACATTT TGGCAATTNC TTAACCAAGC TCTTCTTACC ATAAGATGAA GCAACTCCAC 120
ACCTTGGTAT TTACCCAAAC GAGTTGAAAG CTTATGCCCA TACAAACACC TGTACAAGAA 180
TGTCTATAGC AGCTTTATTC ATAATTGCCA AANCTTGAGG GCATCCAAGA TATCACTTAA 240
TGGGTGGACA GATAAGCTGT GGTACATCTA TACAATGGAA TATTAAGGTG CTAAAAAGAA 300
ATGAGCTCTG AAGCCACAAA 320
```

(2) INFORMATION FOR SEQ ID NO: 3645:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 319
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04299

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3645:

```
GATCGGGATT AATATTAGTG CATTTTAAAC AACTTAAAA GTTTTACAAN TGTATTTGTG 60
TATTTCTGT TTTGGTGCCT GTTTTATAGA AGATGATTGA NGAATCACTG AAGATTAAAA 120
TAAAAAAGGA ATTAGAAATG GAAAATGNAT TAGAAATGAG TAATCAAGAA ATAAAAGACA 180
AATCTGCTCA CAGTGAAAAT CCTTTAGAGA AATACATGAA AATCATCCAG CAGGAGCAAG 240
ACCAGGAGTC GGCAGATAAG AGCTCAAANN NGATGGTCCA AGAAGGCTCC CTAGTGGACA 300
CGCTGCAATC TAGTGACAN 319
```

(2) INFORMATION FOR SEQ ID NO: 3646:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 318
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04300
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3646:

```

GATCATAGAA GAAGAANCCA GTAATTGANC AAATCCTATT TAATGACATC CTTGTAGCAT 60
AGATGGTCTA TAATGCTGAC CACAGATTTC TTAGAAATGC TGCTCTCTCT ATTTAACTAA 120
CATTTTGTNC AGTTTTCCTT CCAGTGGAAG CAGAAAGGGT TTTTNCAGCT GTTAAATCCT 180
AAAANTCAAT ATAATTNATT TATGTAAGAA AAATAACTCA ATCAATATAT TTTTGAACCT 240
TTTAAGTACT AATTTNNTNT TTATCAAGTA GAAAAAAAT GTATTTGCCG TAAATCCTTA 300
AAATACAAAT GCTATAAA                                     318
  
```

(2) INFORMATION FOR SEQ ID NO: 3647:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 317
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04302
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3647:

```

GATCCTGAGG CTTTGGCTGA AATTCTGCTT GAAACTTGTA AATCAATCAC ATATTCTTTA 60
GAAAATAAGA CCTACTCATC TGTGAGAACA GAAGCTTTAT CTGTGATAGA ATTGCTGCTT 120
AAAAAACTTG AAGAATCTAA ACAGTGGGAA TGTTTGACAT CTGAATGCAG AGTGCTCCTA 180
ATTGAGTCTT TAGCTACTAT GGAGCCAGAC AGCAGACCTG AACTGCAGGA GAAAGCAGCG 240
TTACTGAAGA AAACACTTGA AAATCTGGAA TAANTTAGAN GGGGAAGAAA CAAACAAGTG 300
CCATGTTTCA TGGGGGN                                     317
  
```

(2) INFORMATION FOR SEQ ID NO: 3648:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 317
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04303
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3648:

```

GATCCTTCTC CTTCCCTGGG ATACAGCACC TCCACCCTGC CAGGCCACCC NTGTAAAGGC 60
AGCCAATTCA GAGCCACCTC TTATGCCTGC ATCTCCCCCA ACAATTCCTG CTGGGAAACC 120
ACTCCTCGTA TGGTGTCTAT TACACCAAGT GGTTCACAGC TTGAGAAGAA TCAAGTTCTA 180
CAGGGCTGCT TAAAACACAG GTTGCTGGGT CCTGTNTCTC AGAGTTTTTG ACTCAGTCTT 240
GGTTGAGAAT TTTCACTTCT AGAAGCTCCT GGGTAATGCT AATCCTCCTG TTCTAGGGGC 300
CATAGTCATT GTCCATN                                     317
  
```

(2) INFORMATION FOR SEQ ID NO: 3649:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 317
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04304

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3649:

```
GATCTACACG CGGCTGGCCA CCATCTACCA CAACTNCCTC CTGGACCGTG AGAAGTCGCT 60
CTTNTTCTAC CAGAAGGCCA GGACCTTCGC CACAGAGCTC AACGTCCGCA GGGTCAACCT 120
GCCTCCTCTG CCACTCTGCG GGTGGGCCCC CTGGTTGGCC CCCAGCCACC CTNGCTGAGG 180
ACAGCATCCA AGGGAGTGGG TTTTGTGCAA GGGCTAGGGG TCTCCTGCCT NTCCTGGTGT 240
CGNCGGTGGC TCATTTTCTN GCAAATNGAG GCACGAACGC AGGGNCCAAA TAGCAATAAA 300
TGGGTTTTGT TTTTAAA 317
```

(2) INFORMATION FOR SEQ ID NO: 3650:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 317
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04305

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3650:

```
GATCTATGCA ATTTTAAAC TAGTAATGGG CCAATTAAAA TATATATAAA TATATATNTT 60
NCAACCAGCA TTTTACTACT TGTTACCTTT CCCATGCTGA ATTATTTTGT TGTGATTTTG 120
TACAGANTTT TTAATGACTT TTTATAATGT GGATTTCCTA TTTTAAAACC ATGCAGCTTC 180
ATCAATTTTT ATACATATCA GAAANGNCG ANTTATATCT AATTTATACA AAATAATTTA 240
ACTAATTTAA ACCAGCAGAA ANGTGCTTAG GAAAGTTATT GTGTTGCCTT AGCACTTCTT 300
TCCTCTCCAA TTGTAAA 317
```

(2) INFORMATION FOR SEQ ID NO: 3651:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 316
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04306

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3651:

```
GATCTGAATT CTAAAGCGTC TTTCATTGTT TACTTTTAGG ATGAGGAAGT ACAGACAATT 60
GGTCAGATAG AACTGTGCCT CACTAAGCAA GACCAGCAGC TGCAAAACTG CACCGAGCCG 120
GGGGAGCAGC CGTCCCCCAA GCAGGNNGTC TGGCTGGCAA ATGGGGCCGC CGAGAGCCGG 180
GGTCTGAGAG TCTGTGAAGA TGGCCAGTC TTCTATCCCC CACCTAAAAA GACCAAGCAT 240
TGATGCCCAA GTTTTGGAAA TATTCTGTTT TAAAAAGCAA GAGAAATTCA CAAACTGCAG 300
CTTTCTAAAA AACAAA 316
```

(2) INFORMATION FOR SEQ ID NO: 3652:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 374
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04307

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3652:

```
GATCCTTGCGG  TTGTAAAGAG  AGTAGAAACC  CTAGGNAGCA  GTGCTTTTGG  GTCCTAGAAC  60
CTGTTGAGTT  TCTAATGAAT  ATTTGTAGAA  TCTNATAAAA  CAGTTTAAAT  ACAAGCTTAA  120
GTGGCTTATG  AATCCTGTNA  AGCTCATTTA  TGGNCTAGTG  TAAAACAATG  TGAAGCTCTA  180
CTAAGTNCCTG  TCCTTAATCA  TAAATAATAG  CCCCTTGNGG  NCTAGCCTGT  CCTCTGGTCA  240
CCTTACCAGT  TGGGTTGCAC  ATTGTGTGGT  CGTCCAATTA  AACTCAATCT  TNCGTGTGNC  300
AGGNGNTAGT  CTNTCCAATC  ATGNCATAGN  TTTTCATCTG  TTTTGTGCTG  GTGGACGNAC  360
CTTCGGANTA  ANTNNNNNNN  374
```

(2) INFORMATION FOR SEQ ID NO: 3653:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 316
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04308

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3653:

```
GATCAGGACC  AACCTGGAAA  ATGCCAGATT  TGGCTATGCT  TTTTAANACA  TTNATTGGA  60
CAGCTCACCA  ACCCCTGAAG  GGGCCGTAA  GCCTGGTTAG  TTTTNTACCT  ACTCCGAGTN  120
TCCTCCCCTG  CCCCACCAGA  TTGCTGCAGG  GCGCGGTGT  GCCTGGNAGC  CAAATTNTTG  180
ACACTTCTTT  TTTCTATGCT  ACTGGTTTTA  CACAGCTGTN  ATTTTNTTTT  CAAAATTGCA  240
GCAGTCCCAC  AAGATGTNTG  CATTGGACA  AATAGTACTT  AAAACAAAN  CAAACAAGCA  300
CTCAGCCCAG  TTCCTNNNNN  316
```

(2) INFORMATION FOR SEQ ID NO: 3654:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 315
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04309

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3654:

```
GATCTAATGC  AGAATTATC  AGATATTGTG  AAAAATCAGT  GTGGGAGGTA  TTCAGTCAAA  60
AGTCAGAAGG  AAATGTATTA  TCGTTATAAT  TTCAAACCTT  AAGAAAGCCT  AAATTACCAA  120
TTGCATATCA  AATTTTTTTT  ATAATGTAAG  GAAAACCTAA  ATCCCCTCCA  TATCCTAATT  180
GGCATTTATA  ATAATATGAC  ACTTAACCTT  GACAGCTAGA  GTCTTACTTT  ATGCTAATGC  240
TAGATATCTA  TTTTNAANTT  CCACGTGTGT  AAACATGCTA  TACTCTTCTG  ATATTAANCT  300
TACTAAGTAC  ATAAANNNNN  315
```

(2) INFORMATION FOR SEQ ID NO: 3655:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 315
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04310

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3655:

```
GATCCAAGAA GAACTAGAAA AAAAGTTGTT TGCAGGCTTG CAACCTCTCA NAAATTTTAA 60
GGCTAGCTCT TCAACTATGT CTTTNAAGAA GAATATGTCT GCCACAGCA GCCAGAAGTG 120
ACAGCATTCT TGTGAATGTT TACATCCTGC TGCTGATAGG TTCAAGGAAT TCTTTAAACC 180
AGATTCTGCT GACATGAGAA GCTCCAGTGA TTTGTTTTTT TGAAGGTCTG TATCAGAGCA 240
AGCCTAACAT CTAAATAANG TTTGATTCTG GATTTTCCAG GTGGGAAATA AATAAAGAAA 300
ATTGCGCTTG TCAAA 315
```

(2) INFORMATION FOR SEQ ID NO: 3656:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 347
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04311

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3656:

```
GATCCGTGCC CGCNTCCAGG AGAAGTTGTC ACCTCCCTAC AGCTCCCCAC AGGAGTTTGC 60
CCAGGATGTG GGCCGCATGT TCAAGCAATT CAACAAGTTA ACTGAGGACA AGGCAGACGT 120
GCAGTCCATC ATCGGCCTGC AGCGCTTNTT NGAGACGCGC ATGAACGAGG CCTTCGGTGA 180
CACCAAGTTC TCTGCTGTGC TGGTGGAGCC CCCGCCGATG AGCCTGNCTG GTGCTGGCCT 240
GANTTCCAG GAGCTGTCTG GTGGCCCTGG TGATGGNCCC TNAGGCTGGG GGCCCCATGG 300
TCAGCCCAGN NTGGGTTCTG TTCTNTGGNN CTTGTCANNC NNAANCN 347
```

(2) INFORMATION FOR SEQ ID NO: 3657:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 313
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04312

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3657:

```
GATCATAACT GAACCAGAAT TTGGATTATA GANGTGCAC TCTAGCTGT TTTTATTATA 60
GGTATAGGAA CACACAATGA GAACCTTATG TTTAGAATGT AGCAGTAACA ACAGAGGGTA 120
ACTACACTGC AAGACTTAAA TGGTTTGAGC ATGTGACACT ATCCTTTTGT TGGGGGGAGC 180
AGGGTATAAN ANTATACATA CAGGAGATTA GTTTAATAGT AAAGTTTTAT ATGTATGTTT 240
AACTTCCATG ATATTTATNA TTTNGTAGAG ACATTTGTGA TTGTNTAGAG TTCTNGTNTT 300
TNTTCTATTT ATN 313
```

(2) INFORMATION FOR SEQ ID NO: 3658:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 307
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04313

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3658:

```

GATCTTAAAA GTGGAAAGCA GAAAAAATAC TGTTTCCTGA AATTNAAAAG TTTTGGCAGT  60
GCCCAGCAGG CCCTCAACAT TCTCACAGGC AAGGACTGGA AGCTGAAAGG CAGGCATGCC 120
CTAACCCCCA GGCACGTCCA TGCCTGGNTC AGAGGCTTAC CACCTGANTC AACAAGGCTC 180
CCAGGGCTTC GTGTTGTACC TCCCCCTTT GAACAGGAGG TCTTGACAGAC TCTGAAACTG 240
GACCACCCGA AGATAGCAGC CTGGCGCTGG ANGCCGGAAG ATTGGAAAGC TCTACAACAG 300
TTTGTGN                                           307

```

(2) INFORMATION FOR SEQ ID NO: 3659:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 306
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04314

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3659:

```

GATCCCCAGA GAGGTGGCCC TGGACCTGGA GTCAGGAGGC GGTGTCCAGA AGAGTCGCTC  60
ATCAACCCCG GGTTCAGAG TAAGAAACCA GCTGGTGGCG TGGACTTCGA TGAGACCTGA 120
AGGTGCAGCA CAAGCGTGGC CCCGCGGGGA GTCCGCCTAT NAGGGGAGAG GCAGTCTTTG 180
AGGCCCCCAT CAGAGACCCC CCGCCACCAC CTCCACCTGC CTGTCCTGGG CCAGGACTAA 240
CACGGCTCCT CAAATTCCTT CCCTGTCAAA TAAACAGCTC CCTTGTTGG AGGCTCTNGT 300
GGGAAA                                           306

```

(2) INFORMATION FOR SEQ ID NO: 3660:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 371
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04315

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3660:

```

GATCCCCTGA GCAAGTCAGA AGTTACTCTC ATCAGTCGTT CATGGTCACA ACCTGAGGTA  60
CTCTGCTGAG TGGGCAAGGC TGAAGAAGAG GCCTGTGGAA TGCAGCATTG CCTGCTGGAC 120
AGAGCAGGGC AGGCAGTTCT ATGCCTTGGA GCTCCTGACT GCAGGGACTC TGTCCCCACA 180
CTCAGAAAGA CTCAGCTCAC TCAATGAGAG AATGTGATTT ACTTTATAGA ACGTATAATC 240
AACTTTGTTG AATAATTTGT TCTATTAAGG CTGTCTAAAG TATGTNATGT CTTTCATCATA 300
GTATGAAGTG TTGAAAATTA ATAACGGGCC TAGTTTAGGA AAAAGCTGCT TAAANGNGTG 360
TGGCCCGTAN N                                           371

```

(2) INFORMATION FOR SEQ ID NO: 3661:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 304
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04316

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3661:

```

GATCTGTATT GATATTTGAT AGTGAAAATG TTTATTCAAT TTTTCCCCAA AATGTATTTG  60
TTCCTCTTAC TTGTTTATTC AGCTGTGGTG ACTTCAAAT ACTTTTCCA GGTGACAAAA 120
AAAAACTCAG AAAAATTTTT AATCTTAATT GCATTAATAC TATAAATTGA TTTGGAAGGA 180
TTTAACATTT TATAATATNG GNNTTCCTCT GCAGTAATGT GGCATATTCT TCCNNNNGTT 240
CAAGCATTA  AAAATCTCT TAGCAAAGCT GCACAGCCTT CTTCATAAGG GTTCTCTATA 300
TTTN                                             304

```

(2) INFORMATION FOR SEQ ID NO: 3662:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 303
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04317

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3662:

```

GATCTGCGGT GGGCCAAGAG TATCCAGGGA GAAACCTGTC CCTGGCAGGG CTGGAGCAGG  60
GACACTCCAG GCCCAGCTGA GGCTTCCTGC TCTGCATGGC AGGGGACATC TCTNACCTGG 120
TCAGGACCCT GGAGGTGGGA CAGCTGGTGC TAAGGGAATG TNAGCGCATC AGGGTTGGGG 180
AGAAGCAGTG GGTGGTCCAG GAAACCCCTG AAACAGCTGG CCCTGGGGTC CCCTTTCAAG 240
TGTTTCCAGT TGTGGCAAGG GGTCAAGGAG ACCTTGCAAT GCAAATCTNT TAGAAAAAAC 300
AAN                                             303

```

(2) INFORMATION FOR SEQ ID NO: 3663:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 302
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04318

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3663:

```

GATCTGAAAG ATTACATTTA GAACATTTAG TACTATTACA CTCTCAGAAA CTGTNGTAAA  60
AAGTCACATT TTCAAACCTT CATGCATATT GTATTCTTGT TGGAAATAAG TCCTATAGTT 120
TCTTAATTGT CTTCATGCCG TCCATATTTA ACAAACATTG CAAGTCCTTT TTATATTTGG 180
GTAATNATTT GTAATTTAGT GAAGGAGACT AGGGGATGTT TTCTTCCAAA GGGAATTTAA 240
AATCAATTTT ATGGTATTTT GAAAGTAAAA TACTCCTTAA CGTGTCAATA TTTTAAAAAT 300
GN                                             302

```

(2) INFORMATION FOR SEQ ID NO: 3664:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 301
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04319

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3664:

```

GATCCTCTCA GAGTGCCAGG CATCCCCCCC GNACCAGCAG AGGCTCATCT TTATNAGGCA 60
AGCAGCTGGA AGATGGCCGC ACTCTTTNTG ACTACAACAT CCAGAAAGAG TCGACCCTGC 120
ACCTGGTCCT GCGCCTGAGG GGTGGCTGTT AATTNTTCAG TCATGGCATT CGCAGTGCCC 180
AGTGATGGCA TTA CTCTGCA CTATAGCCAT TTGCCCCAAC TTAAGTTTAG AAATTACANG 240
TTTCAGTAAT AGCTGNACCT GTTCAAANTG TTTAATAAAN GGTTTCGGTT GCATGGGTAA 300
A

```

(2) INFORMATION FOR SEQ ID NO: 3665:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 300
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04320

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3665:

```

GATCTGAAAA ATGAAGTTTG GTATCAAAAA NGTCATGACC CTGTATGTAA AGCAGAAAAAC 60
TTCAAATCTG ACTGTTTCCC ATTACCTGCT GAAGTATGTC TCCTGTTTCT TTTCAAAGAG 120
GAAGANGAGT TTACAACAGA TGANGCAGAT GAAACTAGGA GCAATGAAAC CCAGAATCCT 180
CATAAACCAT CACCTAGCAG GCTGTCAACA GGTGCATCTN CTGATGCTGT CTGGGNTAAT 240
GGCATTGATG ATGCTTATTT TTTAGAAGCT ACTGAAGATG CTGAATTAGC TGAAGCTGCN 300

```

(2) INFORMATION FOR SEQ ID NO: 3666:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 300
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04321

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3666:

```

GATCACTNAA TGGTCAAGTG GAACAAGCAC TACACGACTA ACCCCTATTG GGGTTTTTAA 60
CTTAAGGGAG GCTAATTTTT AATTTAACT GCTCGAGATA TGAGTTCTGC AAAAGGTGGT 120
CCGCATCCTT GGCCCTCTGG ACATTATCAC TAAATTGCTT GTGCCTGTTA ACAAGAATAC 180
TGACCAGAAT GCTCTTCATG TAGCTTATAC AGTTGGTTCA CTTTCATGCGG TTCTTGACAT 240
GTTTATTCTT ACCCTTAATG CAATGAAATG TTTCATTAAT AAAAAACCAC TTTATATAAA 300

```

(2) INFORMATION FOR SEQ ID NO: 3667:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 417
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04322

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3667:

```
GATCTTTCTG GCTCCACTCA GTGTCTAAGG CACCCTGCTT CTTTGCTTG CATCCCACAG 60
ACTATTTCCC TCATCCTATT TACTGCAGCA AATCTCTCCT TAGTTGATGA GACTGTGTTT 120
ATCTCCCTTT AAAACCCTAC CTATCCTGAA TGGTCTGTCA TTGTCTGCCT TTAAAATCCT 180
TCCTCTTTCT TCCTCCTCTA TTCTCTAAAT AATGATGGGG CTAAGTTATA CCCAAAGCTC 240
ACTTTACAAA ATATTTCTCTC AGTACTTTGC AGAAAACACC AAACAAAAAT GCCATTTTAA 300
AAAAGGTGTA TTTTCTTTT TAGAATGTAA GCTCCTCANG AGCAGGGACA ATGTTTTCTG 360
TATGTTCTAT TGTGCCTAGT AACTGTAAA TGCTCAATAA ATATTGATGA TGGGAAA 417
```

(2) INFORMATION FOR SEQ ID NO: 3668:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 298
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04323

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3668:

```
GATCTCTGAA AGCTCAAATG GATGGAATTT AGTTTGCGGG AAAGAGGCTT TGCTTTGCGC 60
ATATCAGGCT TAGGACTGTG GGAGGCTTAA GAAGCAGATG CTTCTTNAT TGTA CTCTTG 120
TNCTGCCCTT GTTTTTTGAA GGCTCTGACT TATAACTNCT GTATCAGAAG AAACATTTTG 180
ACAGTGTCTT GGTGGAGAT GAACATCCCT AATTGACATG TGATGACTAT TTCTNATTCC 240
ATTCATCTAA GAGTCATTGA AATTTTGTTT TGCTTGTTTG TTAGCTTCA AGGTCTTN 298
```

(2) INFORMATION FOR SEQ ID NO: 3669:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 294
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04324

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3669:

```
GATCATCTCT ATATCTAATT TGTATTATNA CTAATCTTAT TCCAAC TATT TNCTTTATNA 60
TACTGAAACA GTTTGTNCCT TCAGTCTCTG CTTGGCTAC CTAAGGGA AGGGCCCCCT 120
ATCCTGTAAT CACATGACTT ACTTCACCTT GTCAATCACT GAGAAGATTC ACCCTCCTTA 180
CCCTGCCCCC TTGTCTTGTA TGCAATAAAT ACCAGTGGGC CTAGCCCTCT GGGACCACTA 240
CCGGTCCCGG GGTCTTGATG GTAGTGGNCC CANAGCCCAG CTTGCNTNCN CAAA 294
```

(2) INFORMATION FOR SEQ ID NO: 3670:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 293
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS04325
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3670:

```
GATCAAGAGG CCACCAGTTG TACTTCAGCA CCAATGTGTC TTACTTTATA GAAATGTTGT 60
TAATGTATTA ATGATGTTAT TAAATACTGT NCAAGAAGAA CAAAGTTTAT GCAGCTACTG 120
TCCAAACTCA AAGTGGCAGC CAGTTGGTTT TGATAGGTTG CCTTTTGGAG ATTTCTATTA 180
CTGCCTTTNN NTNCTNACTG TTTTATTACA AACTTACAAA AATATGTATA ACCCTGTTTT 240
ATACAANCTN GTTTCGTAAT AAAACTTNTC CCTTTTTTTA AAATGNAANT AAA 293
```

(2) INFORMATION FOR SEQ ID NO: 3671:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 292
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS04326
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3671:

```
GATCTATAGT ATTTTAATGT GCATCTACTT TAAATNAGTC ATCTTGGGGT TTTNATAATT 60
CCCTTATGTT CTTGCCCCCTC TACACTTGAA ATAACAAAAT GCCTTAATTT TATGGATTAG 120
TTCTCTTATA GTAGACAGGC AGCTATATGC AGCAAAACCA ATAAAGTTAT TTTTCAACTT 180
TCATAGTTGT AAAATATCTT ATAACAGAAT ACAAACAGC TANGAAAACA TGCCACATTT 240
NATTTTNGCA TTTTCAAATA ATTNNGTTTTT GGTGTAAGCA CAGGATAAAA AN 292
```

(2) INFORMATION FOR SEQ ID NO: 3672:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 291
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS04327
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3672:

```
GATCAAGGAT GCAACCTCAG GTTGAGAAAG AAACAGGGTT CCCTGGGCCC ATTAGACTGT 60
TTGCAGGGCA TCACTGCTTC CCCCTGACAC CTCACAATA GCAAAAATTG TCTTTGTCTT 120
TGGAATNAT AGAGGGATTT GGGTATCCAG ATTGTGCAGA TGCAAACTTA GGCTGTCTTG 180
ATGNNNACTT AGAACCACAG AAATGCTTTT AAAATGCCTG TTTTAAGATG GAATTGTTGT 240
TTNATAATT TGATTTTAGT GCTAAATAAA TGATTGGCTT TGTACATGAA A 291
```

(2) INFORMATION FOR SEQ ID NO: 3673:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 291
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single

(D) TOPOLOGY: linear
(vii) IMMEDIATE SOURCE:
(B) CLONE: HUMGS04328
(ix) FEATURE:
(D) OTHER INFORMATION: "N"=unidentified base
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3673:
GATCTAAAGG CTCTGGNTTT GCCTTCTTTC AGTCTGACAC TGACTAACAA CCTCGACAAG 60
GTGGGCATAT ACCTGGATTA TGAAGGAGGA CAGTTGTCCT TCTACAAATGC TAAAACCATG 120
ACTCACATTT ACACCTTCAG TAACACTTTC ATGGAGAAAC TTTATCCCTA CTTCTGCCCC 180
TGCCTTAATG ATGGTGGAGA GAATAAAGAA CCATTGCACA TCTTACATCC ACAGTAATGA 240
GTCATAATAT TATACAAATT CAGAGTGTTA TTAAAGAGGT TTTGAAATAA A 291

(2) INFORMATION FOR SEQ ID NO: 3674:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 290
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear
(vii) IMMEDIATE SOURCE:
(B) CLONE: HUMGS04329
(ix) FEATURE:
(D) OTHER INFORMATION: "N"=unidentified base
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3674:
GATCCCAAAA GCTGTTTTNA GGTATAAGGA CAAGGAGAGG AGACAAGTGA CGACAGCCAT 60
TCCCCTTTGC AGCTATCTAC TGTAAGTACA GCCATTTCTT GGTGATGGG TTGGAAGTCA 120
TCAGAGGTTT GAAGAATTAC ACTGGCCTTT GTTTTCNNG AAATGCCGAC CATGGAGATG 180
CTTTAGAGTC TTCTCAAATA GCTTAGATGT TGTAATGNNG TTAAGCTTTG CTTCATAAAA 240
CAGGGGCCCT CAGAAGTTCT CCTTTAAATT TTTCANATAA AAAATTTAAA 290

(2) INFORMATION FOR SEQ ID NO: 3675:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 288
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear
(vii) IMMEDIATE SOURCE:
(B) CLONE: HUMGS04330
(ix) FEATURE:
(D) OTHER INFORMATION: "N"=unidentified base
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3675:
GATCTATCCC TGTCTCACTG AAAGCCCCTG TGTAGTGTCT GTGTTGTTTT CCCTTGACCC 60
TGGNNTTTC TATCCTCCCA AAGACTCAGC TCCCCTGTTA GATNGCTCTG CTTGTCCTTC 120
CCCAGTCACC AGGGTGGGGG GGACAGGGNN AGCTGAGTGC ATTCATTTTG TGCTTTTCTT 180
GTGGGCTTTC TGCTTAGTCT GAAAGGTGTG TGGCATTTCAT GGCAATCCTG TAACTTCAAC 240
ATAGATTTTT TTTGTGTGTG TGGAAATAAA TCTGCAATTG GAAACAAA 288

(2) INFORMATION FOR SEQ ID NO: 3676:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 285
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear
(vii) IMMEDIATE SOURCE:
(B) CLONE: HUMGS04331

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3676:

```

GATCAACCCC TGACCTAATC GGTTATGTTA TCTACAGATT ACAGACATTG TATAGAAAATG 60
CACTGTGAAA ATCCCTATCC TGTTTTGTTT TAATCTAACT ACCGGTGCAT GCAGCCCCCA 120
GTCATGTACC CCCTGCTTGC TCAATCAATC ATGACCCTCT CACACACATC CCCTTAGAGT 180
TGTGAACCTT TAAAAGGGAC AGGAATTGCT CACTTGGGGA GCTCAGCTCT TGAGACAGGA 240
GTCTTGCCAA TGCCCCTGGC TGAATAAACC CCTTCCTTCT TTAAA 285

```

(2) INFORMATION FOR SEQ ID NO: 3677:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      285
(B) TYPE:        nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04332

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3677:

```

GATCACAAAA ATGGAACCCC CTGTTTCATG CTTCTACAGT CCAGCCAGCC AATCTGAAGA 60
TGTCATTCTT ATAAAAAAGT ATGACCAAAT GGCTATCTNC CACTGTTTAT NTTGGCCTTC 120
ACTGACTCTG CTAGGTGGTG CCCTGATTGT TGGCATGGTG AGATTAACAC AACACCTGTC 180
CTTACTGTGT GAAAAATATA GCACTGTAGT CAGAGATGAG GTAGGTGGAA AAGTACCTCA 240
TATAGAGCAG CATCAGTTCA AACTGTGCAT TATGAGGAGG AGCAN 285

```

(2) INFORMATION FOR SEQ ID NO: 3678:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      282
(B) TYPE:        nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04333

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3678:

```

GATCTCTGTG TTTGCAGTCA AAGGGCGGCT CACACATGGT CAAGTATTAT AAATNTCCTG 60
TGTATCTINAC AATGGAATCT ATTCTACAAT TTAAAGTATA CGCTTTCTGT ATATGGCCAT 120
TAAGTGAAGC TTAATAATCT TGTTTTNCT GTCCTCATAG ATATTTTAAT CTGTGGCATC 180
CTCCTGTAAT CTCAGCATTT TGGGAGGCTG AAGATGAGAG GGTTGCTTGA GGCCAGGAGT 240
TCAAGACAAA CCTAGGCAAC ATAGCAACCC TGTCTCTCCA AA 282

```

(2) INFORMATION FOR SEQ ID NO: 3679:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      280
(B) TYPE:        nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04334

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3679:

```

GATCTGAGGT GATATGTTCT GAATGTAAGC ACCGTCAACA TCAGACACCT ACTCATGGAC 60
ATGTGGTTGC CGGATTTTCT TAAGATGTTT CCAGAAATGA CTGATATTTT ATATTTTATAC 120
ATTTTAGATG ACAAAGCTTG ATATTTATTG CTGTCGCACA TTTTAAAGTT TTCTTTTTTGG 180
GTTGCTCTGT GNCANGGCGT GGTTACATGG TGNATAATCG GTACCTGATA ATGTACCCAA 240
ATACTATGGC CAGATAATAA ATTGNGGTGC AAACAACAAA 280

```

(2) INFORMATION FOR SEQ ID NO: 3680:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      278
(B) TYPE:        nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04335

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3680:

```

GATCACTGTG CAGTGGGACC ACCCTCACTG GCCTTCTGCA GCAGGGTTCT GGGATGTTTT 60
CAGTGGTCAA AATACTCTGT TTAGAGCAAG GGCTCAGAAC NCNNAATAC TGTCATGGAG 120
GTGCTGAACA CAGGGNNGGT CTGGTACATA TTGGAAATTA TGAGCAGAAC AAATACTCAA 180
CTAAATGCAC AAAGTATAAA GTGTAGCCAT GTCTAGACAC CATGTTGTAT CAGAATAATT 240
TTTGTGCCAA TAAATGACAT CAGAATTTTA AACATAAA 278

```

(2) INFORMATION FOR SEQ ID NO: 3681:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      277
(B) TYPE:        nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04336

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3681:

```

GATCANAGAN TNACAACTGT TCATTATAGT GGTGCCTTAG GCAATCTTTN CAAAGTAAAT 60
TCAGGGCCCC ATTGCTACTT ATGCCATATT TGGACATACT TTTTCTTCT TCAATTTTGT 120
AAACTTCCTG GAAAGCTGTC TTCACTAAGT ATCCCNAGT CTCTATCTAT GNGGNTAGTA 180
GTCATGGAAA TAACACATAA AGTACGCCAG NAGTTNGNTG GAACGTGTTA GAAACTGTTT 240
TGTGCTTTNA TGGATGTCAT ACTTGNCANT ACATGTN 277

```

(2) INFORMATION FOR SEQ ID NO: 3682:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      275
(B) TYPE:        nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04337

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3682:

```

GATCTTTCTT TACTTGATGT GTCCTTCTNT TCGCAGATTG ATAACAGAGC TGTGCTAGAA 60
CTGAATGCAA GCTTTCCAAA ANTNTTCATA AAAAAAGCT TTAATCAGTG ACTTAATATA 120
TGTNCTGTAT TAAAATTAAT GTGCTTTGTT GGGGTTTAAT TTTGNNATTG GTTTTGGGTT 180

```

TTNTTTT TAG TTGTTTAAAT GGTAAGAATT AAGACATTTT NTAGATTTTA AAGAAAAATA 240
TGAAATTNTC CATTAAATCA AGTAAAAATG TGAAA 275

(2) INFORMATION FOR SEQ ID NO: 3683:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 269
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04339

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3683:

GATCTCCGCA GTCTTCAGCG CATTGGCCCG AAGAAGGCC AGCTAATCGT GGGCTGGCGG 60
GAGCTCCACG GCCCCTTCAG CCAGGTGGAG GACCTGGAAC GCGTGGAGGG CATAACGGGN 120
ANACAGATGG AGTCCTTCCT GAAGGCAAAC ATCCTGGGTC TCGCCGNCGG CCAGCGCTGT 180
GGCGNCTCCT GACCGTCGTC TCCTCACTCC GNCTTTTCAA ATTTTGTAT AACCCCGTGT 240
TGTGTAAATA CAGTTTTTGC TCCGGTAAA 269

(2) INFORMATION FOR SEQ ID NO: 3684:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 266
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04340

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3684:

GATCAGGCCA GTAGTTGTG AATGCAGGCT GGAGCCCCG AATGCCCAN NCACACTGCA 60
GCATTGACCA GACCATCCGA AACCTGCGTC CCTGGTGTATG TTCTCAAGCC TCGGAAGTGG 120
CAAATGGAAA TAATATGGCC GGTGCGGTT GTAGGAGAGT TGTGACTTAG GCAGGAGTCG 180
ACCTCCTCAA GTAATGGAAC GATTTCAAAG GCAGGCTGCC CTGACCAAAA ATATCTGCCA 240
TGAATAAAGG TGCCTGAAAT CCTAAA 266

(2) INFORMATION FOR SEQ ID NO: 3685:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 266
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04341

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3685:

GATCTACTTT CAGGATTATT TTTGTNTTT GAACGTGACA GTNTGGATGA GGCAAGTNAG 60
TNTAGATGCT GCGACCTGC GAGAAGCAAT AGCTAGTGAA CACATTAGCT CCCTACATGG 120
GACGCAGCTC CCTCTGACAT GTGTCTCTGC CCTTAACCAA GACAGAAAGG GGGTAAATGG 180
AGGATTGGNT TACTGTCTTT GCTGGTTAGT TTTGTGAAAT TTTAAAAATG TTCAACTTTT 240
GANTAACTC CTTTAACTT CTAAA 266

(2) INFORMATION FOR SEQ ID NO: 3686:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 270
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04342

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3686:

```
GATCTCCTTC AGTNGTCTAC CCACTTCCGT CATTGTCCTC CGCTAGAATA ACAGAGTAGT 60
TGGTAGTCAT GGCCAGAAGG GGGGTGGGGG CAGTGTGAGG ACTTGGGGTT TCTGTGCTGT 120
GTGACACAAG GAGATAAGTG ACAATNTTGA AGTCCTAACT TGCCTATTTC TAGAAAGTAT 180
AGTGGTGATT TTTGTGCAA GATTTGAAGT TTTAAAAAAG TACCAAGTTC CTGAAATTCA 240
ATAAAATATT TTTATTAATT TTAATGGAAA 270
```

(2) INFORMATION FOR SEQ ID NO: 3687:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 264
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04343

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3687:

```
GATCTCAGCT CACTGCAACC TTCACCTCCC GGGAGCATGC TGCTCTATCT TTTTTTNCAG 60
ATGTTTGAGC TATTCCAGGT TTTTGGGAT TTCTGTTGNT TTGTTTGTGTT TTTTGCTTTT 120
CTACATAATT GTTTGGATAA TCTTGTCAGT ATCTACGAAG TGCCTTGATA GTAAATATAT 180
NAACCCTGTG TATCAATNTG GGGTAATTNC ACATNTTTTT CTATGTTGAG TTATCAATAA 240
ATTGATATTG TATATGNCTC TAAA 264
```

(2) INFORMATION FOR SEQ ID NO: 3688:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 262
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04344

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3688:

```
GATCCTCAGT GCAAAATGTC TTGTGTANTT NTNTGTGAAT CCATGGGTCT GGCTAGAGGG 60
CCCAAAGCTT GTAAATATGG GGATAGTCTG GGTCAGACCC ATCTNTCCCT TACCCATCTT 120
GCTTCCAAGA CCATTTGTAG TGAGCGAGTG GATGCTGTGC TACGTGTGAA ATCTGTCTTT 180
GCGGGGCCTG TCTCAGTGAT TCGNTTTTGG TATTNGTTTG TAGCTTTCCT GGAAGTCAAA 240
TAAATGTTTC CCCCACTCCA AA 262
```

(2) INFORMATION FOR SEQ ID NO: 3689:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 256

(B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04345
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3689:
 GATCTCAAAT GTGAACAGTT TACTAATGCA CTACTGAAGT TTAAATCTGT GGCACAATCA 60
 ATGTAAGCAT GGGGTTTGT TCTGTAAATT GATTTCTAAT NTGAAATTAC TGAACAATC 120
 CTATTCCCAT TTTNGCTAAN CTCAATTTCT GGTTTTGGTA TATATCCATT CCAGCTTAAT 180
 GCCTCTAATT TTAATGCCAA CAAAATTGGT TGTAATCANA TTTTAAAATA ATAATAATTN 240
 GGCCCCCCT TTAAA 256

(2) INFORMATION FOR SEQ ID NO: 3690:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 251
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04346
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3690:
 GATCTAAAAA GCTGAATAGC ATGTNAGTTA CTTGGTTTCA ACTTGAGTTT NCTTTTAATG 60
 TTAATAAGAT TGAACTTTA GTATTTAGTG GGGAAATGGAA AGAGTTGCCC TTGTTGCAAG 120
 TAATGAAGCC TGATTGATT ATGAAGCTGC TTAATCACTC TTCATGTGTT CAGAATTACT 180
 GTTTTNTTG TTTGTTTNC CTTTNGTCA CTGTGGTACA TTAAAAATTT NGGGAAGATG 240
 CTTTACCTAA A 251

(2) INFORMATION FOR SEQ ID NO: 3691:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 250
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04347
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3691:
 GATCCCAGAC CTGTNGTCTC TCCCACCCCC TCCCCAAAGC CACTGGAAGG AGCACATACT 60
 ACCTAGAAGT AAGANGNNGA GCCTCAGAAG AAAACAAAGT TCTATTTTAT TAATTCCTA 120
 TGTGTTGTGT TTGTAGTCTT GTCTTAGCTC TGGACGTGAA ATACTTCGAT GATGATGATG 180
 ATGATGATGA TGATAATAAT AATAATAATA ACAACAACAA CAACAATAAT AAAGATGTGA 240
 AAACTCGAAA 250

(2) INFORMATION FOR SEQ ID NO: 3692:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 248
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04348

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3692:

GATCTCAGAT AACTCAGTAC AGATAGCAAT TAGTCAGCTG ATTTGATTAC AATGGAGTAA 60
 CCGACAATAT ATTTATTTAT AAAGCACATA TTCATAATAA CGAGAAGAAT TCAGAAAACC 120
 ACTTAAGCAA GACCCTTCTG AAATAAAANN TGTNGCTTTT TAAATAGTTT GTCCTAAGGT 180
 GTTTAAANCA TGTCAACCTT ATGTAAGGNN AANTTTCCTG GTCCAANTAA NGTTGANGTT 240
 TAAGGAAA 248

(2) INFORMATION FOR SEQ ID NO: 3693:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 248
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04349

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3693:

GATCCTGGTT GGAAGGATGG GGACTCTCTC AAGGGGCTTT GGAAGAGCTC TTCTAGCCCT 60
 TTATAAAAGG AGGGCAGCAG CTGAGACTGA TGAGAGGAGG GCAGCCTGCT CTGTTCTTTC 120
 AGGGCCCCCC ACCCCCATCT CCCCTACCCT AGCCCACCCT AGGGCCTCTA CCCAGCGGGA 180
 GGGGTTGAAG ACCAGGCCTG GTTTTATTAG AATTCATTTT GTAATAAAAG CCTTTTCTAG 240
 TGGTGAAA 248

(2) INFORMATION FOR SEQ ID NO: 3694:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 248
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04351

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3694:

GATCCTATTT TNATGAAATG TCCAGAACAG GCAAATCCAC AGAGACAGAA ACTAGACGAA 60
 TGGTTGCCTG AGGGTGAGGG GAAACAGGGA GTGACTGATG ATGGGTTTTG TGTGGGGGCA 120
 ATAGAATGTN CTAAATTTG ATAGTAATGG TTATACAACT CTGAATATAC TAAAAGCCAT 180
 TGTACACACG TTAAAAGGG TGGATTGTAT GTGAATTCTA TCTCAATAAA GCTGTTCAAA 240
 AATTCAAA 248

(2) INFORMATION FOR SEQ ID NO: 3695:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 245
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04352

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3695:

```
GATCCACTCC GCCATCGATG CATCCCAGAC CCCCAGATGTC GTGTTCGCAA GCATCCTAGC 60
AGCCTTCTCC AAAGCCACAT GTAAAGACTT GGTTATGTTT ATCTAATGTT GGGTCCAAGA 120
AGGAATTTCT TTCCATCCCT GTNAGGCAAT GGGTGGGAAT NATAGGACAG GCAAAGAGAA 180
GCTTCCTCAG GCTAGCAAAA ATATCATTTN ATGTATTGAT TAAAAAAGCA CTTGCTTGAT 240
GTAAA                                           245
```

(2) INFORMATION FOR SEQ ID NO: 3696:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 243
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04353

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3696:

```
GATCTCAAAA CCACTATTTT TATTATTTCA TTATTTTTCAG GAGGCCTTAA AATTCTGGAT 60
AAGAGAATGG AGGAAAATAC TCANCGGTAC TTCATTATTT NATTCCTTT TATTAAAAAA 120
TTACTTCTAT GTTTTNATTG TCTCTTGAGC CTTAGTTAAG AGTAGTGTAG AAATGCATGA 180
NCTTCATCCT AATAAGGATA AANCTTAAGG AAAACCACAA TAAACCATGA AGGTGTACAC 240
AAA                                           243
```

(2) INFORMATION FOR SEQ ID NO: 3697:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 241
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04354

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3697:

```
GATCTNTCCA CGGTAGCACT TGNCCTTTTC GACGCTTAAC CTTTCCGCTG TCGCCCCAGG 60
CCCTCCCTGA CTCCCTGTGG GGGTGGCCAT CCCTGGGCCC CTCCACGCCT CCTGGCCAGA 120
CGCTGCCGCT GCCGNTGCAC CACGGCGTTT TTTTACAACA TTCAACTTTA GTATTTTAC 180
TATTATAATA TAATATGGAA CCTTCCCTCC AAATTNTTCA NGTAAAAGGT GGCTTTTCAA 240
A                                           241
```

(2) INFORMATION FOR SEQ ID NO: 3698:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 239
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04355

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3698:

```
GATCAGCACT GCACTNTTAG CTGAGAGTGC GGGCAAGACA TAAACTGTCC AGAGTTTNA 60
```

GNTTCTNGGA AAGACCGGAG GGCTTCTCCC CACAGAAGGC GGAGAGAGCT GGGNCTCAGA 120
 CATGGNTGTG CACCTTAATA AACCTGCTG TCTGCCTCCC TGACTCTGCT TCTNNGGAGC 180
 ATGGTGAGCA GCCCTNGTGC TCANCAGCCA TACCTATGGG ACACACACTA CGNAAAGN 239

(2) INFORMATION FOR SEQ ID NO: 3699:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 236
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04356

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3699:

GATCACAGGT GATTACACG TACACACATA AACACACCCA CCAGTGCAGC CTGAAGTAAC 60
 TCCCACAGAA ACCATCATCG TCTTTGTACA TCGTATGTAC AATGCAATCA TTTCATACTT 120
 TAAACTGGTC AAAAACTAA TTGTGATTTT TAGTCTTGCA AAGCTGTATG TAGTTAGATG 180
 ATGTGACAAC CNCTAATATT TATCTAATAA ATATGTATTC AGATGAAACC TGTAAC 236

(2) INFORMATION FOR SEQ ID NO: 3700:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 235
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04357

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3700:

GATCCATCCT TTATCAGGAA GTCTGAAGCG ACTATAAAGG TTTTNNANTT CAGATTTAAA 60
 AACCAACTTA TAAAGCATTG CAACAAGGTT ACCTCTATTT TCCCACAAGC GTCTCGGGAT 120
 TGTNTTTGAC TTGTGTCTGT CCAAGANCTT TTCCCCCAA GATGTGTATA GTTATTGGTT 180
 AAAATGACTG TTTTCTCTCT CTATGGAAAT AAAAAGGAAG AAAAAAAGG GNAAA 235

(2) INFORMATION FOR SEQ ID NO: 3701:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 232
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04358

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3701:

GATCCGTGTT CTCCATTTAT TAATGCATTG TAGACCAATT TAACTGCTGT GTTTCAGGAA 60
 AATTCTTCCT AGTTTAATAA GCAAGCTAAA AGTTTTATTT TTTATATTTA GTGCTTAATC 120
 TTTGCCTCAT GTTATGTAAA ATTAGCCTGC AGATATTTTC TCTCAATTCT GTAGACTCTC 180
 GCAAGATAAA CATTCAAACA GTGAAACAAA CANTAAATA AATAAACCTA AA 232

(2) INFORMATION FOR SEQ ID NO: 3702:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 231
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04359
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3702:
 GATCCATCTG AACTATGAAG TGAGTACCTG GAGGAACTCC TACATTTAAG GCTTTCAAAG 60
 GTTACAGGCT TTTCGTGTGT GTGTGTGTGT GTGTGTGTGT GTGCGTTTGT AGAAAAATGG 120
 AATTCAAACA CTGTNNTTAG AATGTATGTT TACTTATATA GAATTAATGA ATNTATATAA 180
 TAATAATNAC TGTATATAAT TNTAAATAT AATAAAGTCT CTTTATCCAA A 231

(2) INFORMATION FOR SEQ ID NO: 3703:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 237
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04360
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3703:
 GATCTGGAGT TGAGAGCCAT GGGTTTGGAC ATGACTGGCA CAAACAGCTG TCATATGTTC 60
 ATGGTCAGAT GTCATACATT CTCAGCTGTC TTGTTCCACC AGTATTTACC AGGAAAAACAA 120
 AGAATGTGTT AAGGGATGCT CCCCCACCCC ACATCTTAAG TCAGTGTGCC AAGTACTGAG 180
 ATGATTTTAG GGACATTTTA TTTTAAATTA AATTTACAAT CTAATGGTAA ATTGAAA 237

(2) INFORMATION FOR SEQ ID NO: 3704:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 231
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04361
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3704:
 GATCATCAAC AAGATTTTCT TGTGCAAAAT ATTTGACTAT NCTGTATCTT TNATCCTTGA 60
 CTAAATTCGT GATTTTAAAG CAGCATCTTC TGGTTTAAAC TTGTTTGCTG TGAACAATTG 120
 TCGAAAAGAG TCTTCCAATT AATGCNNNNT TTATATCTAG GCTACCTGTT GGTTAGATTC 180
 AAGGCCCCGA GCTGTTACCA TTCACAATAA AAGCTTAAAC ACATTGTCAA A 231

(2) INFORMATION FOR SEQ ID NO: 3705:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 229
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04362

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3705:

```

GATCAAAATT GAACCATGT ACAGTTTGGN TTCTGTTTGC TTCAAAATAT GTAGAATTGT   60
GGTTGATGAT TAATTTGCGA GACTAACTTT GAGAGTGTA CANTTTTGAN GAAAACATTG  120
AATGTTTTGC AAATGAAGGG GCTTCACGGA ATGTTACANT GNTACTAATA TAATTGGGCT  180
TTNNTNATGC AAATNGTTAA CACCAGCTAT TAAAATATAT TTNGTAAA                229

```

(2) INFORMATION FOR SEQ ID NO: 3706:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      228
(B) TYPE:        nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04363

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3706:

```

GATCGCTACC CACCTTCCTT CCATGGTTCC CACCCTCCAC GTTATTTTCC CTTTCTGCAG   60
CGGTTGCACT ACAGGTAGCT ACTGTGTATT ATGGACAAAT GAGAAATGAA TTCTTTTCT  120
GGCTGTCCAT CTATTTTATT TCAAATAAGG AAAAGTGTAT TTGGATTTTG TGTAATACA  180
TCTAGTGATG NCATTTTTTC AATGTTTTNA AAAACCGTGT ACAGTAAA                228

```

(2) INFORMATION FOR SEQ ID NO: 3707:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      228
(B) TYPE:        nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04364

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3707:

```

GATCCTCATC CAATTGGTGT TTTTCAGAAG TTTTCCAATA TTATGAATTC TGTGTTGTGG   60
AGAAAAGCAA CCATGCATTT ACTGGTCAAT GCCTTCTTGT ATATGTAATT CAATACTTTT  120
ACTTTTAATA TCCTCACCTT ATCTAATCTT TGATTTTGT CATGTAATTT ATTGCTTCAT  180
TAAGGTTACT TTTTGTATA CAAAATAAAA GCTGATATCC AAGGCAAA                228

```

(2) INFORMATION FOR SEQ ID NO: 3708:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      226
(B) TYPE:        nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04365

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3708:

```

GATCTATGAA AATNTGTTTT GACCAAACTT AGTATTAGGC AGGTACACAG ATAAGATTTT   60
CCATTCTNAA CATTCTCACT GTAATGCACG ACATTTGANG CACCTGNATG TGCTATCAAT  120
CAGGTGGGAA ATTTAGCATT ATATATTGGA AGCATTGAGA AACATTGGTC TNTCATTCT  180

```

ATTNNNTTTT NCCCCTCCTN TCCTCCTCCT GCCCCACANT ATATNN

226

(2) INFORMATION FOR SEQ ID NO: 3709:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 224
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04366

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3709:

```
GATCCTGAGA GCTTTGAGAG GGTGTTGCCA GTTTTAAGCT GAGATGGCCC ATTTGGAGCC 60
TTACAGAACT AGACCAGAAG ACATTTGTGG ATAAATCTGA ACTCACTTCC TGTGTGTAAC 120
TTCTAACTTC ACTGGTTCCT CCCATCTGAA TTGGCCACAT GCTTGCTGAA GAGACTTGT 180
TTCTTCTTCT AAGACAGTGG TTTTGTTTTT TGGGTTTTTT TAAA 224
```

(2) INFORMATION FOR SEQ ID NO: 3710:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 223
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04368

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3710:

```
GATCTGGGCA GAATCCGCCA AGCGGCTGGG CCCAGGCTGT GGCATGATGN ACGGAGNAAN 60
GAAGCACCTG GACTTCTAGG GATTCCTCCT TAGTCGCTGC ATGCAGAATT CTATGACACT 120
CTAATNATGA TTGCTAATAG CTTATGTAAA TATTTNNNTT AACAATTGG NCCTNCACTC 180
CTTNAAAAAC ACAAGGATTA TAAAATGGGT GCCNGCATTT NTN 223
```

(2) INFORMATION FOR SEQ ID NO: 3711:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 221
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04369

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3711:

```
GATCGTATTC NTNATAAACT ATTACCAGTA CAGTAGCTAG TAGATATNNT GTGACTGCCT 60
CATTTGTTTAT CTTGCTGCTT TGGTCCCTAT GGCTCTAGTA TGAACATTCT CGTGTCTTCT 120
GTGGAAATGA TTTCTGTGTT ATAGTTNCAN CTINGGTAGA GGTGGGGATG ATTGTATTTT 180
GTTTTAGTTG ACATCATTCT CAACTNTTAG AAATACTGTT N 221
```

(2) INFORMATION FOR SEQ ID NO: 3712:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 219
- (B) TYPE: nucleic acid

(C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04370
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3712:
 GATCAGTTTG CGAGTTTTGA TGAGNTTGT AAGGTTNTN TTTTACAAAC TATGAATCAG 60
 CAAATNTTTA AGATTGTACC ACATAGCAAA CATACAGCTG TTGAAAAATA ATGTATATAA 120
 AATGCATATA ATAAATATTA AATNGTGTAC CTGTATGTTA CTGTTGGCTA CATCATTTTG 180
 TGTGAATAA TAAAGTGCAA TACNNNCCTT CTCCATAAA 219

(2) INFORMATION FOR SEQ ID NO: 3713:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 214
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04371
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3713:
 GATCATTCTG TATATACATA TTTTAAATTA TGCAAGCAAA CTAGGAGGAG AATGTNCAAT 60
 TTTAAGGGAT ACCTAATTTT CNTTCGGTTA GGGGATATTT TCCANCCTCT TGCTTTATAC 120
 TCTGATATGG GGTGTNTTTA TGANCTTTTT AATGTTATTT ANTCATGCAG ATTTCCAATC 180
 ANTGTATTGC NCATTTCCTG ACAAANGGG NAAN 214

(2) INFORMATION FOR SEQ ID NO: 3714:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 215
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04372
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3714:
 GATCCAAAAAN ATAAAACTTG AAGCTATTCT GGAAC TAACA TGGAAAAATG AAATGGCTAT 60
 TGTTTAAAAA AATGATAGAA ATACATTGTT GATGGGATAT GAGTTAAGTT TATTTTCTAC 120
 AAACCTGTAA TTGATGACGG CATGGATAAT ATCTTCATGT TTCTGACNAG TAATCTGTAT 180
 GTGGGGGGGAG GGGATAATAA ATATTTCTAA CCAA 215

(2) INFORMATION FOR SEQ ID NO: 3715:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 335
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04373
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3715:

```

GATCAAAAGT GAACACCTG GCCTATCCAT TGGGGATACT GCAAAGAAAT TGGGTGAAAT 60
GTGGTCTGAG CAGTCAGCCA AAGATAAACA ACCATATGAA CAGAAAGCAG CTAAGCTAAA 120
GGAGAAATAT GAAAAGGATA TTGCTGCATA TCGTGCCAAG GGCAAAAANTG AAGCAGGAAA 180
GAAGGGCCCT GGCAGGCCAA CAGGCTCAAN GNAGAAGNAC GANCCAGNNG ATGAGGAGGA 240
GGAGGAGGAA GANGNAGATG AAGATGAGGA GGAAGAGGNT GAAGATGAAG AATAATTGGC 300
TATCCTTTAA ATGATGCGTG TGAATGTGT GTACN 335

```

(2) INFORMATION FOR SEQ ID NO: 3716:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 211
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04374

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3716:

```

GATCAAATGT GCTGCAGCTT TTGCAGAAAA CAACTCAGAA ACACAAAACC CCCCACACAGC 60
TCAATTATTA TTTTTCATAT GTTTCCTAC AAGAGCCAAG TAGCACCATG TACAGAAGAC 120
GCCTTTTTTT TTGGAATATT GAAATCGTTC TGCATGTAAA ATATGGGATA ATGACCTGTT 180
TATATTAAAA TTCTGATTAA ATTATCTGAA A 211

```

(2) INFORMATION FOR SEQ ID NO: 3717:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 390
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04375

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3717:

```

GATCAAGAAT TCTACCATCC CTTGGGTCTT TGTGTATAAA CAATGTTAAA TACCAGGTAG 60
ACTCAGTCTT TAAGATATTA GACAGTTTTT TTAGTCCATG GGNTNNNNAA TATAAACATT 120
AACTTTCCTA TAAGANTATT TTGGCTTTGT AATCTATAGC CTCAAATTGG TATTTATTAT 180
GGNTTCACTA GACAAACAGC TGTTTCCTTA TTGTNTTTTN NCTTTAGTGT TTCTGATTG 240
CTATCAGTAG CTGTTTTTAA AGCCGNCCAA GGNAATANT TATTTGCAGT TTTTGAAGT 300
CACTTTTTGA GCCCTCATNC AAGCTCTCAT TGTGGNTGGG GAGGGATACC NTTTTTGGTT 360
GTTAAAAGGC CTATNATTGG TTAAAGGGCN 390

```

(2) INFORMATION FOR SEQ ID NO: 3718:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 235
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04377

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3718:

GATCTTAGAG CTGAGGAATT GGCCTCCCAA TCCGAACAGG TGTATAATC CTTTCTNAAT 60
 AGGTTGTGCT GTGGACCCAA TGTNAGGGCT GTNCTGGTGT AAATGGTGAC ATATTGAGCT 120
 GGGGGGATGC TTTCGGGGTG GGGGGACTGG TTCCATTCCA TCAAAAGGCC CTCTTGAGAG 180
 TCTATCCNGG GNCCCATTTG TTNAATTTAA CAGGCCAGNA AAGANGGTTG NTNNN 235

(2) INFORMATION FOR SEQ ID NO: 3719:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 209
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04378

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3719:

GATCTCCTGA GCTCAGGCAA TCCGCCACC TCGGCCTGTC AAAGTGCTAN GATTACAGGT 60
 GTGAGCCACC ATGGGTGGCA TCTTTAATAT AGATTTATAA GGCCCNNTG TTATATATTT 120
 NNAAAAATTC AAATTAAC TANATCCCCA AATGTCCNT TTATTAATGA AGTATTTTGT 180
 CANATGGATG TTTTAAAGCT GTGTATGTN 209

(2) INFORMATION FOR SEQ ID NO: 3720:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 209
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04379

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3720:

GATCTAGGAT TACTCTGGAC CTCATTCGGG TGTATGAGT ATCCACGAA GGCCAGACGC 60
 TGATTTNATT TNCTCATTTT CACAGATTGA CAAGGATAAG TCAGNNGTTT GTAAACTCTA 120
 GGATGAGAT GAGAAATAAT TCACCTAATA TCAGAAATAT TTNCCAAACA CTTTCCTTNA 180
 TTTTTCCTTC TGANTAAATA GANANCCNN 209

(2) INFORMATION FOR SEQ ID NO: 3721:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 208
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04380

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3721:

GATCCAAGGA ACGTTTGGGG TTTCCTAGGT GGGCCACATC CAATCAGTGG AAGGTCTTAA 60
 GAGCAAAANC TGAGGTTCTT CAGAGAAGAA GGAAATGTTT TAAGACTTCA GCATCAATTC 120
 CTGCCTGAGT TTCTAGCCTG CTGGCCTGCT CTACAAATTT CAAGCTTGCT AGCCCTCACA 180
 NTCACATGAA TAAATTCCTT AAAATAAA 208

(2) INFORMATION FOR SEQ ID NO: 3722:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 208
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04381
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3722:

```
GATCCTTTCC CCATGGACAG TGACAGAGCA ACTGGGCCGC AATGGCATAG GCAGAAGAAA 60
ATNTAATCAC TCTGGGGGTG ANTGGTGGTT AAAACGACTC ATGTAATTAT TTGGATTGTA 120
ATTTCTTAC ACATATTTNT TTGCTTAACC CAGCATGTNA GATATATNAT NTAATCTAAT 180
AAAAGATACA AACTTATGGG CACACAAA 208
```

(2) INFORMATION FOR SEQ ID NO: 3723:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 207
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04382
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3723:

```
GATCACCTTG GAGCTGTGGC TTCCCCGAGC AGCTGAGAGT GAAAGGAGGC AGTTCCTTTA 60
CTGTGAGCTC TCACGGCAGC GTGCTCACGC CCCACACAGG GGCTGCCTTC ACTCGGCTTC 120
AGCAGCNGTT GACTTTTAAA TCATAAAAAG CCGCTCTATA TACAGTTTAC TCTGTTGCTA 180
GAAGGCAGTG GAACATAGGT ATTTAAA 207
```

(2) INFORMATION FOR SEQ ID NO: 3724:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 207
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04383
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3724:

```
GATCCACGTA CAGTTTGGAT TTTCCTTCTA GCCTTCATGT GTGGCCCAAG CATCTATTTC 60
AGACTGTCAT GGTGGGCATT GTTCTCTGAG GTTCTGTCTT CCCTTCGTGT TTCTATGAGC 120
TTTAATTTGT ATGGTTCTTG TTCTGTTAAT GCCACTAGGG ACTATGTATT CCTGATTCCA 180
CCATGACAGC TACAGTAAAA CAGTAAA 207
```

(2) INFORMATION FOR SEQ ID NO: 3725:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 204
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04384

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3725:

```
GATCAAGCAG GCACTTCAAG CCTCAATAGG ACCAAGGTGC TGGGGTGTTT CCCTCCCAAC 60
CTAGTGTTCA AGCATGGCTT CCTGGCGGCC AGGNCTTGCC TCCNTGGACT ANCTGGGGGG 120
TTCCGGGTCT CAAGAAGACA AGGGTGCTGG NCCTCCCTAA GCCAAGGAGA GGANTAAAGA 180
CAAAAAGCTN AAAAAAAAAG GAAA 204
```

(2) INFORMATION FOR SEQ ID NO: 3726:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 202
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04385

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3726:

```
GATCTCGAAC TGTACCAAAA TACATGGAGA CTAACAAACA GAACCACATG GAACTTTCAA 60
ACTGAAAAAA AAATTTGTCA CAAAACTTT GTTGTCTAG TTAAGTTGAT TGTAGATGGT 120
AATTGAATAT ACTCCTTTGA AAATATTTCA TCAAGTATGT TTCCTGCTCA TTGTGATACA 180
TTAAAAAAA ANTATGGGCA AA 202
```

(2) INFORMATION FOR SEQ ID NO: 3727:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 219
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04386

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3727:

```
GATCCAGAAG GCTTACGAGT ATTTTATTAT CTTGTCCAGG ACCTGAAGTG TTTGGTCTTC 60
AGTCTTATTG GATTACACTT CAAGATTAAA CCAATCTAGA CTGAATATTG GTGTGGACAT 120
GGGGGGTGGG TGGGAGTAGA AAATTTTGTG TATATCAGGG CAGTATTTTT TTATGAATA 180
TAAATGATTG TCTTTAATAA ATATGTGATA AAATCCAAA 219
```

(2) INFORMATION FOR SEQ ID NO: 3728:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 200
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04387

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3728:

```
GATCATATTT AGAGGATATA ACAATTAGAA ATCTAGAAAA TAATTATCAC TTTNATAAAA 60
TNTTNAGTCA ACTGTACAAA TAATTACATA AAACATCAAT TAATNATGCT TAAAAATCAC 120
```

TAATNTTCAT AATATATAAT CACTATTTGT AATCAAAAAGT TTAATTTTAT NTNAAAAAAT 180
 AAAAAATGCT TACTTGGA 200

(2) INFORMATION FOR SEQ ID NO: 3729:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 198
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04388

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3729:

GATCAGCCGA ACTCTAGGGA CTTGGTGTG CTTGGAAGGC ATCCATACCT GCATTTTGCA 60
 TTCTTCGTAT GTAATCATAT TGCCAAAGAC AAACATTTTC ATCATTTATT GTAAATAACA 120
 CTTTTCCCA GACCTACCAT AAAGTTTCTG TGATGTATTG TCTTCCAGTT GCAATAAAAA 180
 TTACTGAGTT GCATCAA 198

(2) INFORMATION FOR SEQ ID NO: 3730:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 197
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04389

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3730:

GATCTAAGAT TAATTCCTCA ACTGTTTTGC ACTCAACAAA GACATACCTC TGAGTTGGCA 60
 ACCAGCAGGG TGGATAACGG GCCAGTGGTG ATAAATCAA AGAATAGGTA ATGAAACAAT 120
 CATCCAGTTA ACAATCAGCA AGGTTCTTCA GAGCCTAATT AATGTTTAAT TCTAAATAAA 180
 TTGCAACAAT TAAGAA 197

(2) INFORMATION FOR SEQ ID NO: 3731:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 197
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04390

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3731:

GATCCAAAAG TTAAATTAG TGCATACATC ATGTCATTTT ACCTCCTGTT CCTAGGAACT 60
 CTCCATTCCC AAGCATTGCC AGTGTTTTCC AGATAATCTT AGCTGTTGTC TTGTGCTGTG 120
 GAAATGGAAG AAACCATCTT CACAGACTGT AGGAGAATTC AACATATAAT TTCTTAATAA 180
 ATACTGTTTC TTTTAA 197

(2) INFORMATION FOR SEQ ID NO: 3732:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 195

(B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04391
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3732:
 GATCTAAGGG AGTCCACTAT CTGTGCAATT GTATTTGGNT TTTTTTTGCA CTGTTTCAAT 60
 GCTGGTAATT GAAACCATTT TAATATATTT GGTGTATTC ACTTTATATG TCCTTCCAAA 120
 AATNTTGTG TGTACAAACC ATGNNNNNGA ATGTTGGCTT CCAAGTTTTT AAATAAGAAA 180
 CTTTTTGTAT TTAAA 195

(2) INFORMATION FOR SEQ ID NO: 3733:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 195
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04392
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3733:
 GATCCACGGA GCAGAGGTCA TCTGTCCCCA GCTTGGCCCA CTGAGGCCAG CATGGNTGGG 60
 CCCAGGATGC TTGTCTCTCA GCTCCCATCC TGTGTACTTC CACATTGGTT TAACCAGAGG 120
 AAAACCGAAA TCTACAATTG TNATAACAC ATTTAAATGT GCGTAGAATC AGCCATACAA 180
 ATTGTGAAAC ATAAA 195

(2) INFORMATION FOR SEQ ID NO: 3734:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 195
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04393
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3734:
 GATCAACTCC CCAAGGCC GAAAGGTGCT GCATACCACG TACCANAGCC AGGAGCGTGG 60
 CACACACAGC CTGGACATCA AGTGGTGAAG TNAGGCCAGG GNCTTCCAGC TGCTCTTGGG 120
 GCCAGAGCCA AGAGCCTCTN AGTAGAGGA GGGGCTGCCC TGAGTGGAGT ATTAAAGACA 180
 CTTAAGAAAA CCAA 195

(2) INFORMATION FOR SEQ ID NO: 3735:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 193
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04394
 (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3735:

```
GATCCTGTGC CCTAGGAGCA CCTAGGAAGA CTTGCTCCAT CTCCGCCCCG ATATCTGGGG 60
CACCAAGAGA GACAGAGTCG TGAGCCAGGC TCGCCTCATT CCTCGTCTTG GGAGAACCGG 120
ACCAACTTCC CCAAAGGCC TTGCCGTGCA GAATTGGCCT GGTTTAATAA AGAACAGACC 180
TGNCCCAAGN AAA 193
```

(2) INFORMATION FOR SEQ ID NO: 3736:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 190
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04395

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3736:

```
GATCTGGCCC TCCCCAGAAC AATCTGGATT TCACGGAGAC AGCAACCAGA AGTTAAACCA 60
TGTGACTAAA AATGCATCTG GCTACTTTTT CATGTATGTA TGAGACAGAA ACTAATCCTT 120
ACTATCCTAT TAGGATACCA CTTTTCATTG CAAAGTTTGT GTCAATAAAG TCATTAATTT 180
TAAACATAAA 190
```

(2) INFORMATION FOR SEQ ID NO: 3737:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 190
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04396

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3737:

```
GATCATAAGT AGTGGAGGAT TTAAAACCAG GCTGGCTGGC TCTTAAGGCC TATGCTCTTA 60
ATTNACCATG TNGAATTAAT TTACCATATT GAATTACACT TATGTNCACC AAGTNAGGCA 120
TTTNGGCAGC CATTGTTTAC GTTTTANTTT TGAATAATT TAGAAAAGTT ACCAGAGTAA 180
TATGAAAGCN 190
```

(2) INFORMATION FOR SEQ ID NO: 3738:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 187
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04397

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3738:

```
GATCCTCCGC ATCCCGTGCG AGGAAGAAGA TGTGGAGATG AGTGAGGACG CCTACACGGT 60
GCTGACCCGC ATCGGGCTGG AGACGTCCT GCGCTACGCA NNNNNGCTCA TCACAGCTGC 120
CAGCTTGGTG TGCCGGAAC GCAAGGTAC AGAAGTGCAG GTGGATGACA TCAAGCGGGT 180
CTNNNNN 187
```

(2) INFORMATION FOR SEQ ID NO: 3739:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 187
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04398

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3739:

```
GATCTGGCCC TAACTTGAA ATACCTCCTG CTCCTTTGGG GACTGGNCTT TGCNAAGAGC 60
ACCTGGGGAG GAGACTGGTG CTAATAAGC CAGTAAGTAA GTCCACTCTT TGGNTGCAGC 120
TGGTGCAAGG TCTACCCATA CCTTTTTATT TNCAGTGTTT AATAAAANTC CAGTGNGCAA 180
AGACAAA                                         187
```

(2) INFORMATION FOR SEQ ID NO: 3740:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 186
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04399

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3740:

```
GATCAAGTTC TGCNCTGAN GAGGCTGCCA AAAGTCAAAA GNGGGGCCTG GGAAGGCAAG 60
CTCATTCCTC ACAACGGCCT TTCCAGGCC NGTTTTTCCC TTCCGGCAGC CTCTTGGCCT 120
CTAATTTGTT TATCTNTNGT GTATAAATCC CAAAATATGG AATTTTGGAA TATTTCCACC 180
ATTAAA                                         186
```

(2) INFORMATION FOR SEQ ID NO: 3741:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 185
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04400

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3741:

```
GATCTGCCTT CCTGCTGAAA CTTGTTCCAC CTCAGTCCCC TCATCTGTCA CACGCATGTG 60
GGGTGGAGTA GGGAGATGCG GGGAGCAGGG TGGGCAGGAA TACTGTTATC TATGTNACGG 120
GGCAGTCGTG AGGCTGAGAT GAGAATGCGG ATTAAAATGC CTGGCGTGCT CACCGTAACA 180
CCAAA                                         185
```

(2) INFORMATION FOR SEQ ID NO: 3742:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 182
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single

- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS04401
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3742:

```
GATCCCATCT NTACAANAAA CTTAAAAATT AGCCAGGCAT GATGGCACAT TCCTGTAGTC 60
CTAGCTACTC AGGAGGCTAA GGTAGGAGGA TTGCCTGAGC CCAGGAGTTC AAGGCTGCAG 120
TGAGCTAAGA ACGTGCCAGT ACACTCCANC NNGAGCCACA AAGTGAGACC CTGTCTCGCA 180
AA 182
```

(2) INFORMATION FOR SEQ ID NO: 3743:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 180
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS04402
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3743:

```
GATCAAAGTG GTAAAGACAA TGTAATAATT AACATTTTAA TACTGATGTT GTACACTGTT 60
TNTACTTAAC ATTTTGGGAA GTAAGTGCCT CTGACTTCAA CTCAAGANAA CACTTTTTTG 120
TTGCTAATGT AATCGGTTTT NGTAATGGCG TCAGAAATAA AAGGATGCTT ATNATTCAAA 180
```

(2) INFORMATION FOR SEQ ID NO: 3744:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 179
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS04403
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3744:

```
GATCTNCGGA ATGATGAGCA CACAAGGCGG GAGCTAGCCA AGATGAAGCA GGNGCCGGTG 60
AACCTGAAGA AGGCAGAGAT ATGGCAAACA GGATTNGCGC TTTTGGNNAC ATGGAGTGTT 120
CAGCAAAGAC CAAAGATGGA GTGAGAGAGG TTTTNNAAAT GGCTACGNGA NCTGCTCTN 179
```

(2) INFORMATION FOR SEQ ID NO: 3745:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 178
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS04404
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3745:

```
GATCTGAGTG CCTCAAGATG GTTTTCAAAA AAATTTTTTT AAAGAAAATA ATTGTATACG 60
TGTCACACA GCTGGCTGGA TGATTGGGAC TTTAAACGA CCCTCTTTCA GGTGGATTCA 120
```


GAGACCTGTC CTGTATATAA CAGCACTGTA GCAATAAACG TGACATTTTA TAACGAAA 178

(2) INFORMATION FOR SEQ ID NO: 3746:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 332
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04405

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3746:

```
GATCCGAGTT CCTACCGCG GGCCGGGATG TGACCACCCT NTTCAGAGGT TGGACCCCAG 60
GCTTCAAGCA CCGAGTGAGG GGTCTGTTGG GCCCCCTGGG AGAGTCTCTG GTGTGAAGTG 120
GCTTAGGTCT GGACTGGTCA GCTGTGGCAC CAGCCGGTCC TGCCACGCT TCAGGATGGC 180
CGGGGGCTGC CCCTGTGGGA GAGTTGCCAA GACTCGGCGA TACCAAGGAT GGAAGCCAGA 240
GGCTGTGGCG AGGGAGAGCC AAGCATATTC CCAGCACCAG GGCCACTGCT GGCACGTCGT 300
AGACATCCAA TAAATATTTT TGGAAGGAGA AA 332
```

(2) INFORMATION FOR SEQ ID NO: 3747:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 177
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04406

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3747:

```
GATCTNNATA CTGTGAATAG CAGAATGTAC AGATGAAGAA TATTAAAATN AGGGGCGTCC 60
ACTCCAAAC ATATACCAG AGTGACAACT TCAGCCCTCA GCCTCTGCAA TCCATATATA 120
TNCTGGTCTT GGGAGTCCAT AGAATACTGT TTCCTTCTAA TAAAGGTTTC AAACAAA 177
```

(2) INFORMATION FOR SEQ ID NO: 3748:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 186
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04407

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3748:

```
GATCAATAAT AGTACCTTTN ATTATACATT TATTATTGTN TCTCTCTCTG ATGTACTGTG 60
GATTGTACAT TTAACCTTGG AATGGCTTTG TAATAATCAG TCTTAAGAAA ATNTTGACAA 120
GCTCTGGTTG CTTATTTTAA GAAAATAAGG ACATTTAATA ATAATAAAAA AAAAGGGATT 180
AATAAA 186
```

(2) INFORMATION FOR SEQ ID NO: 3749:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 175

- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS04408
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3749:

```
GATCCCCAGT GGATGCCTGA AACCGCAGAT AGTACTGAAC CTTATATATA CTGTTTGTTT 60
TCCTATGCAT ACATATCCCT ATGATAAAGT TTATGAATTT GGCACCTAAC AGCAGAACTA 120
ATAAGATGAA AGAGTTGTAA CAATATACTC TAATAAAAGT NATTTAAAT GTAAA 175
```

(2) INFORMATION FOR SEQ ID NO: 3750:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 172
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS04409
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3750:

```
GATCAACAAT GAGCAGAAAC ATCATCAGTC CTTCCCAAGG ACCATGGCGT TTAATGTCTT 60
GGGCACCCCT TGGAAATCAC AGAAAGTCAG CNGTACTGGC CGTGTGGAAC TTNCATCCCA 120
AGACCTACTT TNCAACTGAG TAAGAAGGTC ATTGTGCCCN CTGCATTNNN NN 172
```

(2) INFORMATION FOR SEQ ID NO: 3751:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 107
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS04410
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3751:

```
GATCAAAAAA TGTTTATNCT GAATTCTNTA ATTTAAAAA NTCATACCTA TNAGGTGTGC 60
TACAGGAATT CAGATACAAT AAGTTGCATA TAAACCCGA CCTCANN 107
```

(2) INFORMATION FOR SEQ ID NO: 3752:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 169
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS04411
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3752:

```
GATCTGACCA ACAAGGCCAC AGGAAAATTA ATAGACAAG GAAGACACAC AAAACACCTG 60
GGAAACTGAG AGAACAGCAG AATGACCTAA AGAAACCCAA CAATGAATAT CAAGTATAGA 120
```

TTTGACTCAA ACAATTGTAA TTTTGGAAAT AAAC TAGCAA AACCAGAAA

169

(2) INFORMATION FOR SEQ ID NO: 3753:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 167
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04412

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3753:

GATCTNCTTG GCCAGCAGGA CGTCCAAGGA CCAGAGCCTG TGTCATGTCC TNGAACAGGT 60
 NTGCGGCGTC CTCAAGCAGG GGAGCTGAGC CTTCCANAGG CAGGGTGGGC TCCAGTTGTC 120
 TTGAGGTGCC GGATGGGCTC AGGTAATAAA GAAACGGAAG CAGCAAA 167

(2) INFORMATION FOR SEQ ID NO: 3754:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 168
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04414

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3754:

GATCTGGGCT GTGGGGCCCT TGGGCCACGC TCTTGAGGAA GCCCAGGCTC GGAGGACCCT 60
 GGAAAACAGA CGGGTCTGAG ACTGAAATTG TTTTACCAAC TCCCANGGTG GACTTCAATG 120
 TGTGTATTTG TGTAATGAG TAAACATTT TATTTCTTTT TAGGTAAA 168

(2) INFORMATION FOR SEQ ID NO: 3755:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 162
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04415

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3755:

GATCTATGAT TTATNATGTC TTAATAGACC CTAAATTGTT CTTTAATTAC AAGAGTGGCA 60
 GTCTCTGAAG TCATTTGTGA GCTTGATGA CTTTGTATT TAGCAATGTT GCATGCTCAC 120
 ATAATTGAAA ATTAAAAGTA ACACATTTTT CTGAAATGTA AA 162

(2) INFORMATION FOR SEQ ID NO: 3756:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 161
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04416

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3756:

```
GATCAAAACA TAATTGTTTT AATTCTACAG CTGTAGGAGC TTTGTATTGC TGAACCTTCA 60
TCTGGAAAAG TTTCACAGTG ACATTTTTAA AAGAGAATTT TTTTATCTGC CGAATTCTAC 120
CAGTGTAACC TTTTNTNTAA ATAAACAATA GTTTTNTCAA A 161
```

(2) INFORMATION FOR SEQ ID NO: 3757:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 160
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04417

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3757:

```
GATCTCAAGA AGCCCCACAT CTTCTAAGG GGCCCCATGG CCTNNTTTGG GNGCAGGGTA 60
GGTCCTGGGG CACTGTGGGC CGCCTGCCTG CTGATGTGGG CTCTAGGCCA GCTTGTTGTC 120
ACGTACGTGG TGTGAAATAA AGCCCAAGCA CTNGNTGAAA 160
```

(2) INFORMATION FOR SEQ ID NO: 3758:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 160
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04418

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3758:

```
GATCCTGGGT GACTTTGGGT GCACAGGGTG ACCGAGCATT TCTGCCCTG TGAATGTGGC 60
ACTAACAATG TGCATGTCT CCACCAAANA AGGTTTCCAC TGAGTTTCTT CTCATGTTAC 120
TGGGTTTGTA AATGAATAAA CACATTTTAA CTACTCTAAA 160
```

(2) INFORMATION FOR SEQ ID NO: 3759:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 158
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04419

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3759:

```
GATCAATAAG AAGANCCTAG TCTAGAGACA ATGATGCTAG TTTGCATATG TTTTCCTATG 60
CAATAGTTGT TTTCCAGTN ATNCAAAGCA GCTTTCTATA TGTAAGATG CAAATNATTA 120
AGTTGTTNCC AATACAATAA ATAAAAGCAT CNGTTNTN 158
```

(2) INFORMATION FOR SEQ ID NO: 3760:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 158
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04420
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3760:
 GATCAGATTT GTAATTTNCC TGTATTAAAT GCCTAGAACT CTACAGTCAA CAGATGGCGC 60
 TCTAGTTCCA ATTGTNACAG AAGTNCTCTG CCCATCCGCA AGCAAAGCGT TGTTTTTCATC 120
 AGTGAAAAGA GAATAANCAC TGTGCTTTAA CTTTTAAA 158

(2) INFORMATION FOR SEQ ID NO: 3761:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 290
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04421
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3761:
 GATCTGTATG GTACTATAAA ATACTTATTT NATAATTCTG TAACCGTATG GCAGTGTTAT 60
 GCCAAAAATG TATAAAGAGC AATAGTTTTT GTTGCTTACT GCTGTATTTT AAAATATTGT 120
 TTCTAAAATA ATAGNGTTAG AGTTCCTTTT GAGTAATTAT TTTTAAGGAC TATTGCCAAA 180
 TATACATCCT GTAAAACCTA ATAAAAGCCA CTCCATCTTT NGGTAACCAT TTTAGCATTT 240
 GTGCTTGGNG TACATNNTGG GTGGTTTTTG CNCGNTTAAN NANNTTANNN 290

(2) INFORMATION FOR SEQ ID NO: 3762:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 158
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04422
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3762:
 GATCCACCCC TCTNTCCAC CTGGGCNACT GACGCTCTGG CCTCTNTGGN AATNACACTG 60
 GGCTGACCTG GCATTGGGAG AGGGAGGGAG GAAGGAAGGG AGGGAGGGGC TGAAGATAC 120
 TGAAGGATTC CTTTTTNAAG GGTTTTTTTT ATTGTAAA 158

(2) INFORMATION FOR SEQ ID NO: 3763:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 157
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04423

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3763:

GATCCAAGTC CCCTGCCTGG TCCCCACAA GGNCTCCCAT CCAGGCCCCC TCTGCCCTGC 60
 CCCTTGATGAT GGACCATGGT CGTGAGGAAG GGCTCATGCC CCTTATTTAT GGAACCAT 120
 TCATTCTAAC AGAATAAACC GAGAAGGAAA CCAGAAA 157

(2) INFORMATION FOR SEQ ID NO: 3764:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 157
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04424

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3764:

GATCATTTTN CATCTGTNCA TAGCGTTTCT NCAGAAGGAA CAGTAGTCTC AAATCTTTCC 60
 TCATAATGAT AACAAAATGC TCTTGCATGA TTTTNTAACA ATATATTAA NCAGGAAGTT 120
 GTCACGTGATA TACTTTATTA AAAGGATTTT AATCAAA 157

(2) INFORMATION FOR SEQ ID NO: 3765:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 161
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04425

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3765:

GATCGTGTGT TGCCATTTNG TCTGGCTGTG GCCCCTCCTT CTCCCCTCCA GACCCCTACC 60
 CTTTCCCAAA CCCTTCGGTA TTGTNCAAAG AACCCCCCTC CCCAAGGAAG AACAAATATN 120
 ATTCTCCTCT CCCAAATAAA CTCCTTAACC ACCTAGTCAA A 161

(2) INFORMATION FOR SEQ ID NO: 3766:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 156
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04426

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3766:

GATCTTGAGG TTGTTTGATG CTTTAAATTT TTNAATTATA TTATTTNNTA GGTGTTTATT 60
 GGTACATTGC AGTTTTTTTT TTNAATTTTA AAAATTTCTG TAAACTTTG TNTTCAAGTA 120
 ATCTGACAGC ATTAAATATT GCATTTAAAA ATTAA 156

(2) INFORMATION FOR SEQ ID NO: 3767:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 155
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04427
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3767:
 GATCCGCAAG AACAAAGTACC GCCCGACCTG CGCNGGCAGC CATCCGCAGG CCAGCGCATC 60
 CTGCGACAGA AGCCTGTAAT GGTAAGAGAA GCGACCCGCC CACCAAGAGT CCTGAGCCCC 120
 TGCCCAGAGA ATAAAGCAGC TGGCTTTCTA CCAA 155

(2) INFORMATION FOR SEQ ID NO: 3768:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 155
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04428
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3768:
 GATCCCAAAA CATCATNAGG CATTTTNAAG TTGGTCACGT CGCAAGTCCG ATATCACAAC 60
 TTAATTGTAA AAGGAGGGAA TCTGGTTTTG TNACTTGGCA GTGGTTTTTT CTCACCCTTC 120
 CTTTTTAACA ATAAAATCCC ATTTGGGTCT TGAAA 155

(2) INFORMATION FOR SEQ ID NO: 3769:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 155
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04429
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3769:
 GATCTATTTG ATAATTTTNT GGGTTTTTTG AAGAATTAAT GAGCATGTAC ATAGAAATAG 60
 TGACTGCTTG ANTACTGTAT TTNCTTGAC TCTTTCAGTA CATCAAGATT CCTGTATATN 120
 TNAGNGTATA ATAAAACACA GATGTGAGTT GTAAA 155

(2) INFORMATION FOR SEQ ID NO: 3770:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 153
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04430
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3770:

GATCGGCACA AGATGCTCAG CTAGATGGGC TGGTGTGGTT GGGTCAAGNN CCCAACACCA 60
 TGGCTGCCAG CTTCCAGGCT GGACAAAGCA GGGGGCTACT TCTCCCTTCC CTCGGTTCCA 120
 GTCTTCCCTT TAAAAGCCTG TGGCATT TTTT AAA 153

(2) INFORMATION FOR SEQ ID NO: 3771:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 153
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04431

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3771:

GATCTGAAGT GTGAGTAGAA TGTATTCAGC TGTTTAACAT GTAGTTTAGA TATTCAAAAG 60
 TATGCATGTA GAGTTTAAAG AATATGTTAA AANTNATTAA TTTTAATATT TTGTTTGGA 120
 AAGCATGTTA TAATATAATG TTTTCACTAT AAA 153

(2) INFORMATION FOR SEQ ID NO: 3772:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 152
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04432

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3772:

GATCTGGNAC TCCTTGAGT AAGCTGTTTT CTGCTCAGCC ACTGGGCTCT TTCCTTTTT 60
 TAGTTCTTAA AAATTTATTT TTAAGTTCTA AAATAAAATA AAAATAAGTT CTAAAATTT 120
 ATTTTTTTCC NGAATAAATT GTATTTGGTA AA 152

(2) INFORMATION FOR SEQ ID NO: 3773:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 151
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04433

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3773:

GATCGCAAAT CACAGCTCAG ACAGCCAGCT CTTAAGTGAG ACCTGAGTGC CAGAGAGGGG 60
 TGGATACAAG GCCAACAGTT ACTAAATGAA TGAAAATTGT GATTCCGATG AAGCCTGCCA 120
 GAGAAATAAA GCATTTTTTTA AAAGATGGAA A 151

(2) INFORMATION FOR SEQ ID NO: 3774:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 151
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single

(D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04434
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3774:
 GATCTAGCCA TAAAACTAGT AATCTTGAAT TCCTCTTGAG CTGGATGGTG ATTAGCCATT 60
 GTGAAAACAG ATTATATGGA AATTGTGCAT ATTGCTAAAT TTTAAAACAT GGATTTATCA 120
 ACTGATAATA AAATATATCT TACAAGATAA A 151

(2) INFORMATION FOR SEQ ID NO: 3775:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 151
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04435
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3775:
 GATCTTTAGC TGCCTTTGTA TCAACTTCTN TGGAGCTTAT GTGATTTTCC AGAAAATATC 60
 CAAGGCATAG TTTTGTCCCT AAGTCCCATG AATATGTAAT ATNTNGTGTC TCTCTATTAA 120
 AATAGCACTT TTNGTGCATN CCATTAACAA A 151

(2) INFORMATION FOR SEQ ID NO: 3776:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 150
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04436
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3776:
 GATCCATCAA AAGGTTCTTT TTNATAATC CCTTTTGAAA ATAATAATCA AAGGAAGAGA 60
 TGTGGTGT TTGGTCATGTGG AAAACTCAAT GTATAATTAA GACGTCTNTC AAAAATCCGA 120
 CAAATAAAAT NAAGCTGGAA CGAAGGCAAA 150

(2) INFORMATION FOR SEQ ID NO: 3777:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 146
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04437
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3777:
 GATCCNAAAG CACACCAGGA AGATGCTAAA GATGCTTATA CTTTTCCTCA AGAATTGAAA 60
 GAAAAACCCA AAGAAGAGCC AGGAATACCA GCAATTCTGA ATGAGAGTCA TCCAGAAANN 120
 NNNGTCTATA GTTATGTTTT GTTCNN 146

(2) INFORMATION FOR SEQ ID NO: 3778:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 168
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04439

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3778:

```
GATCAGAGAA GTTTATGCTC ACTGTCTGAT GCAACTNTCT GGTCTATTTG TNAGTAAATA 60
ACAGGGAAAT CATTTCCTACT TTTTGTTAAA AATAAGGTAT TTACAAGCAT ACCTTGTAGT 120
TATTGTGGGT TCAGTTTCAG ACCACTGCAA TAAAGTGAAT ATCTCAA 168
```

(2) INFORMATION FOR SEQ ID NO: 3779:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 149
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04440

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3779:

```
GATCTGACCC ACCAGTTTGT ACATCACGTC CTGCATGTCC CACACCATTT TTTCATGACC 60
TTGTAATATA CTGGTCTCTG TGCTATAGTG GAATCTTTGG TTTTGCATCA TAGTAAATA 120
AAATAAACCC ATCACATTTG GAACATAAA 149
```

(2) INFORMATION FOR SEQ ID NO: 3780:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 144
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04441

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3780:

```
GATCGGGACC TGACCTGGGG CTGGCCTCAG GCCCACGTGC ACGTAACTGC CCTCTGTGGA 60
AGCCAGCTTA AACCTAGCC CTNTNAGAGC TTCCTGTGCC CAGCAGGAAG GAAGTCAAAT 120
AAACCACACT GACTACCTGT GAAA 144
```

(2) INFORMATION FOR SEQ ID NO: 3781:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 144
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04442

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3781:

GATCTAGGGG GAAAGAGGAG CATTATCAC AAGTTTCCTA GAGAGAGGAG ACAAATCGGT 60
 GTGCCATTGA CAACATGAGC CAGGGTAAAG GCACCCTTNN NNNTTACTGA TTCAAAGAT 120
 TAATAAGTA ATTCTATTTT TAAA 144

(2) INFORMATION FOR SEQ ID NO: 3782:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 139
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04443

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3782:

GATCTATGAC TCATTGACA GAGAAGCCAA GGAAAAAAG CTTGCTTGGC CCATTAAGTC 60
 AAATCCACCA AATACTTTTG TCTAAGTTCT CATTCTTTCA ATTGTTATGC ACCAGAGATT 120
 AAAAAGCTTT AACTATAAA 139

(2) INFORMATION FOR SEQ ID NO: 3783:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 137
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04445

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3783:

GATCTGTGTC TTGAAGCAGC TGCCCTCATT CCGACTTCAG AAAATCGAAG CAGCTGGCTC 60
 CTCCCCTTGT TCTCTCTCCC ACCCTCCCC AAATCTGTTT TCATGTAAAA GACAAATAAA 120
 TGATGACTTC CCCCAA 137

(2) INFORMATION FOR SEQ ID NO: 3784:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 137
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04446

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3784:

GATCAAAATA AAAATGTACA TGACGGGGAA GGGAAAAACC TGTTGGAGTT GCTTCCAGCC 60
 AGCCACGCTC CGGGCCAGCA TGTTGGAATC CAGCGTGGAG CAGATGCAGT AAAAATATGG 120
 TTGGTTTCTG TGTGAAA 137

(2) INFORMATION FOR SEQ ID NO: 3785:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 137
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04447
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3785:
 GATCTCTCTC TCNTTTTACC CCCCTTAGGC TGAGGGTAAA AAGCTGGGAT TGGTAGGCTG 60
 GGTCCAGAAC ACTGACCGGG GCACAGTGCA AGGACAATTG CAAGGTCCCN TCTCCAAGGT 120
 GCGTCATATG CNGNNNN 137

(2) INFORMATION FOR SEQ ID NO: 3786:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 133
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04448
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3786:
 GATCGGCCAA GTATGCTNTT NTTAGAGCA ATGTTTGGC CTAGAGANTT GTAAAATTTA 60
 TGTNATGACT CAGTACATAT GTGTTCGTAC ATATATGATN GGAATAAAAT GTTTATGAAA 120
 TATTNACTCA TAN 133

(2) INFORMATION FOR SEQ ID NO: 3787:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 132
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04449
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3787:
 GATCTGTGTG ACCTCACCTG CATTGATTG AAAAAAGTAT GCGCGTAATT GTACCCACCC 60
 AGTTCAAACC CGTGTGTAAG GGTCAACTGT AAAAAAAGT TTGTGAAATA AACGTACTGG 120
 AGAATCTTTA AA 132

(2) INFORMATION FOR SEQ ID NO: 3788:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 130
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04450
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3788:

GATCAGTATT TAANATTATA CCAGTTTTNA TTAAACCCTT TCCCTCCCCG ATAAAGAATG 60
 TTCTATTTCT GCCTCCCTT AAAGGGGAGA CCTCAGAAGT AAAGNAATTT NATGTTGTGT 120
 TTTTNTTAAA 130

(2) INFORMATION FOR SEQ ID NO: 3789:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 129
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04452

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3789:

GATCCCCCTT CACCTTTTGC CATGGTCATA AGCTTCCTNA GGCCTCCCTG GAAGCTGAGC 60
 AGATGCCAGC ACCATGCTTC CTGTACATCC TGCAGAACCA TAAGCCAATT AAACCTTTTT 120
 AATAATAAA 129

(2) INFORMATION FOR SEQ ID NO: 3790:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 129
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04453

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3790:

GATCCNCCAT GGTGGACACG TCTGTNCTGT ATGTAAAAGG CATTACAAAT GTTTTTTAGC 60
 AGATGAGACT TGAAGCCTTT CCACAGTCCT TGTNCTCTGA GATGGCTGTN GAGCTCTGCT 120
 CANCTGTTN 129

(2) INFORMATION FOR SEQ ID NO: 3791:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 126
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04454

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3791:

GATCCCTACC CCTCANCAAC TAGTCCCCCT GTCGGCCAGC TAAGAGAGCT GGGACANTGG 60
 AGGCTGGCAG AAGCTGAGAC GTGACTGTCT AGGAGTAACA CTCATTAAAG CTTTCNTTTT 120
 GGCAAA 126

(2) INFORMATION FOR SEQ ID NO: 3792:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 126
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04455

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3792:

```
GATCTGAAAA AGCAACCCAT TTCCTAAATT CATATTTTNC CTAAACTTT ACTATGTTTT 60
NATTTTAAGA GGTTCCTGT TATATACT TTTNACACAT GCAAATAAAC TTTATACCAA 120
GTGAAA 126
```

(2) INFORMATION FOR SEQ ID NO: 3793:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 126

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04456

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3793:

```
GATCTGTTTA GAAAATACCT TTGAAAACGA GGGTAAC TTT AAAAATGGA AACTTTCAAA 60
TCCATTTATA TTTTNNTTAT AANCAAACT TAATTAAAAG TTTAACAAC TGGCTGAAAA 120
CTCAAA 126
```

(2) INFORMATION FOR SEQ ID NO: 3794:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 126

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04457

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3794:

```
GATCACTGAG CTGCCNTCA AGGGGACCTG GANNCCGGT CCTGGGGTCA TGCTGCCTCC 60
NAGGCTCCAA GGTGAGGGTC ATCTTCACGA GCAAAGAGAA CCAATAAAGT GACAACGNAC 120
GTCAAA 126
```

(2) INFORMATION FOR SEQ ID NO: 3795:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 123

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04460

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3795:

```
GATCCAGGGC TTTGAGGCC TCTCCTCATT GAGTTCAGAG TCACATATCA GAGGNTTAAA 60
TCCAAAAGAA ATATGCACAC CCCTCTCCTC CCTCCAGTA AAAATAAATC GCTCCTCTTG 120
AAA 123
```

(2) INFORMATION FOR SEQ ID NO: 3796:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 125
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04462

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3796:

```
GATCTCTGTG CTGTAACTA AAACAAATTG TGCATTCCCTT CCGGGGCCAT CGTCTTTGTT 60
TTCTTTTTTG TCTTGAATGA ATTTTAAAG GAAATATATA ATAAAAATGT TAACCAGAAG 120
GTAAA                                           125
```

(2) INFORMATION FOR SEQ ID NO: 3797:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 119
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04463

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3797:

```
GATCTGGGGG CCCCCCAGC TGGCGGGAAC CCCAAATGGA CACAACTGT ACATTTGCCA 60
ATGGGTTTTT TTCAGACCAT GGTTTTTACT TGCAAATAAA CCTGAGTTCT TTTCTGAA 119
```

(2) INFORMATION FOR SEQ ID NO: 3798:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 133
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04464

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3798:

```
GATCTAAAAAN NATACTNTGT TCCCTCATAT GCATGCCCTT CCTTTCTATA TCCTTGACAC 60
CTTACTTTCC CATTGTAACA ATAAAAAAG TATCAATAAA ATAATTATTG GCAAATAAAT 120
TGGTGAGTTG AAA                                           133
```

(2) INFORMATION FOR SEQ ID NO: 3799:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 119
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04465

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3799:

GATCCTGCAG TGATGGAATG TTCTGTCTTG ATTGTAGCAA CACCAATATN CTGATTGTNA 60
TATTATACTA TAGTTTTGCA TAACAGTTAC CATTAAAGGA AATTGGGTAA AAGGCTAAA 119

(2) INFORMATION FOR SEQ ID NO: 3800:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 118
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04466

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3800:

GATCTCTTAG CAAATAGGAA TCTAGGTGTA GAATTTATAC ACATATATAT TTTTAAAAGT 60
ATAAAAATGA GAAAGTATGT ACAAAAAATC ATCCTAAATC TTAGAAAGGA GACATAAA 118

(2) INFORMATION FOR SEQ ID NO: 3801:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 117
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04467

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3801:

GATCTGGGAG CCAGCAGCTG GATGCTGTGG CTGGCCAGAN ACACCTCCAG GCTGTGGCCT 60
GGGGGCTGGG GGGAGCCCCA GGCTGAAAAG GGTCCAATTA AAACAAATGG AGCCAAA 117

(2) INFORMATION FOR SEQ ID NO: 3802:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 117
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04468

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3802:

GATCACATTC CAGCCCTCGC TGCTGGGGTG CACACCCCTT CCTTAGNTGA TGTGCTTGGG 60
AAACTCCCTC CCCCTCCTC CCAAGAGAGA AATAAANCA CCTTCGCCTA GGNCAAA 117

(2) INFORMATION FOR SEQ ID NO: 3803:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 116
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04469
- (ix) FEATURE:
- (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3803:
- GATCCTGACC TCCTCCAAGG AAGAAATCCA GAAAGCCTTA AGACTAAGAC AACTTGACTC 60
- TGCTGATTCT TTTTTCCTTT TTTTNTTNN AAAANAAAAA TACTATNANC TGGAAA 116
- (2) INFORMATION FOR SEQ ID NO: 3804:
- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 115
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
- (B) CLONE: HUMGS04470
- (ix) FEATURE:
- (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3804:
- GATCAGAACT CCAAAACCAC TCCCACCCCT GAAGGTCGGG AGGGTCTGAG CAGCCCTGGT 60
- GGCTNCTTGT GCTCAGGTCC TCAGTCCAT GGGAAATAAA AATGGCACCC TGAAA 115
- (2) INFORMATION FOR SEQ ID NO: 3805:
- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 114
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
- (B) CLONE: HUMGS04471
- (ix) FEATURE:
- (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3805:
- GATCAACATA TTTAGCTTAT ACAGAAATAA AATTAAGTCA ATCCACTCAC AAAGAATTTC 60
- TATTTTGTA AATGTAGCT TGTATTTTCA TATAATAAAA TCTGATGTAA GAAA 114
- (2) INFORMATION FOR SEQ ID NO: 3806:
- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 114
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
- (B) CLONE: HUMGS04472
- (ix) FEATURE:
- (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3806:
- GATCANAGCT NTCCCAAAGA GGGAAAGCGG TGAGGTTTNA GGAGGGGCAG AAGCAGGGCC 60
- GGCAAAGNTT GTACCTNCAT AAGGTGGTAT GGGGGGTTGG GGTCAGGCCC TGAN 114
- (2) INFORMATION FOR SEQ ID NO: 3807:
- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 112
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04473

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3807:

GATCGAAAGA CTCAGGGAGA GCGGTCCTNA CCACCTGGAA GTAAGTCCCA CCTGGACCTT 60
ATNAAAATA CTCACTCCAC CTGGGCCCCCT GCTGAAGCCN NNTTTTAAAA TN 112

(2) INFORMATION FOR SEQ ID NO: 3808:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 111

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04474

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3808:

GATCTGTTTC GTGCATTGGA AGACCCACCC CAAGCTTGGC ANACTAANTN TTGTATCCTG 60
GGGCTCCCN CATCTCCAGG GAGACCAAAC CCCGGCCCTA CCAGNGCCCCG N 111

(2) INFORMATION FOR SEQ ID NO: 3809:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 108

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04476

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3809:

GATCAAGACT AACAAATAAC TTTGTGATGA AAATNCTTCA AAAATATAGC TACTCTTTTC 60
AAGTATACCA TTAAATATAT TTCATCAGGC AGAGCCCTGA CCAGGAAA 108

(2) INFORMATION FOR SEQ ID NO: 3810:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 108

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04478

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3810:

GATCAAGAA ANTNAGGACA ACGAGAAAGT TTAAAGTTC GAAAGCAGCA AGATNCCTTT 60
CCCCCTGGT CAATCNCTGA CACAAGAGAA GGCAGAGACC CTGAAGCN 108

(2) INFORMATION FOR SEQ ID NO: 3811:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 182

(B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04482
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3811:
 GATCTTCAAG CAAGGGAAAT GATTCTTAAA AGGATTATCT GAAATTGAAA AACTAGTAAG 60
 CAAATAAATG ATAAACATAA GTAAATTTAA NCTGTTGTTT GTATAAAACA ATTATAATGA 120
 NGTGTTTATA AGANATTGTA AACAAATGTA AANCTAAATN ANCATTGTTA TGCAACATTA 180
 AA 182

(2) INFORMATION FOR SEQ ID NO: 3812:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 105
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04483
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3812:
 GATCTCCCCA AACTAAAAAG TACAGTACTT GGAATTGTGT TCTTTATGGT TGTAGTGTTG 60
 GTAAAGCACT AATATGCAGA AAATAAAGGA ATTACACAGT CAAAA 105

(2) INFORMATION FOR SEQ ID NO: 3813:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 105
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04484
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3813:
 GATCCNAAGC AGTGAACATG CTGTTAATAC TTGTAAGACT CCTAGCAAAC TGCATTTAAT 60
 TTTTAAATT AGTTTTAGTG TACATAAAGG CATGTNTTTN CAAA 105

(2) INFORMATION FOR SEQ ID NO: 3814:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 105
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04485
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3814:
 GATCCATGGG ATTNATAATT GAAATAGAGA TTGGAGACCC TCCTATTTCAN TTCATAAGCA 60
 ATNGCACCAAC AGGTCANATG CAGTTATCTN AACTCCAGGA AATTN 105

(2) INFORMATION FOR SEQ ID NO: 3815:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 104
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04486

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3815:

GATCTTGCTA AATTATTAGT TCTAGTAGCT TTTTGTAGA TTCATTAGGA TTTTNTACAT 60
 ACACAATCAT GCTATTTGCA AATAAAATAA TGCTTTTATC CAAA 104

(2) INFORMATION FOR SEQ ID NO: 3816:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 104
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04487

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3816:

GATCGAGTCC AAGGNAGACT ATGTCCTCTN CTACCAACGN CAGGNCGTGG CGCGACGCCT 60
 GCTGTCCCCG GCCGGCTCAT CTGGCGCCCC AGCCTCCCCT GNCN 104

(2) INFORMATION FOR SEQ ID NO: 3817:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 103
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04488

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3817:

GATCAGCACT GTGGTGAGCT CCAAGGAAGT GAATAAGTTT CANATGGCTT ATTCAAACCT 60
 CCTTAGAGCT AACATGGNTG GGCTGAAGAA GAGAGACAA NNN 103

(2) INFORMATION FOR SEQ ID NO: 3818:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 103
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04489

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3818:

GATCCCAAAC CTNAGCTCAA TCAGTATTGC CAGANAGGGG TAAGACTGGT TGGAAGCTGA 60
 CTGCAGACTT NNTTTCCTCT TAGTATGTNC TGTGTTGTAA ATN 103

(2) INFORMATION FOR SEQ ID NO: 3819:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 102
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04491

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3819:

GATCACTAAG CAAAGCTGCT AGTGGGATTC TATATTTTCGT GTCATCTTTT TTATNATAAT 60
 NTATTGCAAA TATTTTTCTG AATAAATATA TGTGTGTGA AA 102

(2) INFORMATION FOR SEQ ID NO: 3820:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 102
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04492

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3820:

GATCCTGCCA CCAGGGTTNT TTTGAAATAG TACCACATGT AAAAGGGAAT TTGGNTTTNA 60
 NTTTCATCTAA TCACTGANTT GTCAGGCTTT GATTGATAAT TN 102

(2) INFORMATION FOR SEQ ID NO: 3821:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 102
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04493

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3821:

GATCTTGTTT AATCGGAAAC CCCCCTTACC TCCTCTTTTT CTTTCTCTTT CTTTTTTTTT 60
 TTTAACTNAA ANATTTTNAT GATGATTAAG ANGGAAGTNG TN 102

(2) INFORMATION FOR SEQ ID NO: 3822:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 102
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04494

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3822:

GATCCCAAAC ACTCNATCCT GTAAGNCGGG TACAGTCCTA TTGTNTGTTN NCACACTGAT 60
GATGTGAGCC TGTGAGATGA GCCAATCACC AGTTGTTATG TN 102

(2) INFORMATION FOR SEQ ID NO: 3823:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 101
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04495

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3823:

GATCTCATGT ACTGAAAAAA AATTCTTAAT TTTATTGGAG TTTATACCAC TGTGAAACTG 60
CAATATGACT GTAAGAGAGT AAAAAGATTG TNACATCTAA A 101

(2) INFORMATION FOR SEQ ID NO: 3824:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 101
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04496

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3824:

GATCTGGGAG TCTGAAATGG TAGCNTTTTG TCCCTGTCTT CACACTATCA TAGGGAGAAT 60
CAAAAGANCT AACAAATATA ANCATGCTTT GTGAATNNCC N 101

(2) INFORMATION FOR SEQ ID NO: 3825:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 100
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04497

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3825:

GATCTNTTTT NINTCTATTT TTTGAGGTAC ATGCTACATA CATTNTNTNT GTAAACAACT 60
ATTTAGCATA TTGAATAAAA TAACATTTTA AAAATAGAAA 100

(2) INFORMATION FOR SEQ ID NO: 3826:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 97
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04498

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3826:

GATCCCACGG CNAACACTCA CCACNCGCTA CCATACGCCN TCCCAGAGCT AGGGGCTGCC 60

TTAAAGGAAA TTGTAGCCTA AGTAGGTCAT GGCAAGN 97

(2) INFORMATION FOR SEQ ID NO: 3827:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 96

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04499

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3827:

GATCAGCCAC ATCAACTCAG TTGTCCACCA CAGGGGAATT TTNAATGTCT TTTGTTTTTG 60

TNTTGTTTTG AAAAATAATA AACAGGCAAC TGTAAG 96

(2) INFORMATION FOR SEQ ID NO: 3828:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 95

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04500

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3828:

GATCTATTTG GCCTCTCAAA TGAAGTGAAG TTCCTGTAA AAAAGATTGA TGTTATTGTC 60

TCTGTAGAG GAACTAATA AAGCTGCAGG NGAAA 95

(2) INFORMATION FOR SEQ ID NO: 3829:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 94

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04501

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3829:

GATCTATCAT AATTGCTTTT CTGATGCATT TAAAAATAAA TGGAACACTT AAATGTATAT 60

TACCGATGCA AACTGTGGAT AAAGTTGAAA GAAA 94

(2) INFORMATION FOR SEQ ID NO: 3830:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 94

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04502
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3830:
 GATCACAGGC CTGGCCGCGG TAACAGACTT TTACATGGAA TTGTTTAATT ATTTGTA CTTT 60
 TTCATGCCAG AAAATAAAAG TTCAGAATCT TAAA 94

(2) INFORMATION FOR SEQ ID NO: 3831:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 94
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04503
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3831:
 GATCACTACG ATTAACGACG GTCGTAATGT TAAGACGTCG TCTCCATGAN CTTTGGGGGG 60
 ACTTTAATNT GGAATAAAGA AACTATCACT NAAA 94

(2) INFORMATION FOR SEQ ID NO: 3832:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 93
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04504
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3832:
 GATCCAGATN AAGTGCTGAA GAAAAGAAAA AAGAAGTGGA GAAGAGTATG NTTATNCTTC 60
 TCCTTATTAA AGAAATTTNC TCAAAACAGC AAA 93

(2) INFORMATION FOR SEQ ID NO: 3833:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 88
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04506
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3833:
 GATCTATCCA GTGACGTGGC CTGGTGGGCG TTTCTCCTTG TACTTATGTG GTTTTTTGGC 60
 TTTNAATACA GACATTTTCC TCCAGAAA 88

(2) INFORMATION FOR SEQ ID NO: 3834:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 86

- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04507

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3834:

GATCCCAAAA TATGGTAAAG TGAACCCATC TGTCTGCATT TTCTACTCTG AGCCCATTTG 60
 TTAATAAACA CTTATTTTAA TATAAA 86

(2) INFORMATION FOR SEQ ID NO: 3835:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 84
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04509

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3835:

GATCCGGGGC CCAGGCTGCT GCCGCTTTT ATAACCTTAT ATTATTTTN TTTAAGAAA 60
 AAAAGCTCTT TAAAATACCT CAAA 84

(2) INFORMATION FOR SEQ ID NO: 3836:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 82
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04510

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3836:

GATCTGAGGA GCAAACCTCC GTGGCACACA TTTACCTGCA TAACAAACCT GCACATCCTG 60
 CATGTGTACC CCAGAACTTA AA 82

(2) INFORMATION FOR SEQ ID NO: 3837:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 81
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04511

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3837:

GATCCAGGAG GCTCAAAGAG AAGCCAAGTC AGCTTTGTTG TGATTTGATT TTTTTTAAAA 60
 AACTCTTGTA CAAAACTGAA A 81

(2) INFORMATION FOR SEQ ID NO: 3838:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 81
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04512
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3838:
 GATCGCTACT GTTATGTGGG ATTATTATTT CTAAATNTTA CTCATTGAAA TAAGCATACA 60
 ATAANANGCA TTTATTGCAA A 81

(2) INFORMATION FOR SEQ ID NO: 3839:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 80
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04513
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3839:
 GATCAAAACA AGACCCAGCT TATTTTCTGC TTGCTGGTAA ATTAAGCAAA CATGCTATAA 60
 TAAAAACAAA ATGAAGGAAA 80

(2) INFORMATION FOR SEQ ID NO: 3840:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 78
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04514
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3840:
 GATCTGGTTG AAAATTGTAT TTCTATGTAA ACTCAACGAT ATGTTTGGTT TTCCTGAAAA 60
 TAAATAATTT TAAATAAA 78

(2) INFORMATION FOR SEQ ID NO: 3841:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 75
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04515
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3841:
 GATCCTCACA CCTCAGCGTC CCAGAGTGCT GGGATTACAG TTGTGAGCCA CTGTGCCTGG 60
 CCTTTTTTTT TTTN 75

(2) INFORMATION FOR SEQ ID NO: 3842:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 74
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04516

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3842:

GATCAGAAAT CTGAGGTTCA ATGAGGCCAG AATAACTCAG CTTCAAAATG AATAAATGTG 60
GAAGCCAGCA CAAA 74

(2) INFORMATION FOR SEQ ID NO: 3843:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 72
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04517

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3843:

GATCTCCCTT TGGACTGATA CCCTTTTCCC ATTCATTCAC AAATAAATTA CAATGGGTGC 60
TGAGAACTTA AA 72

(2) INFORMATION FOR SEQ ID NO: 3844:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 78
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04518

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3844:

GATCTGTGTC ATGGTTTTAT AACCTTTNTN TTTTGTAAA CTTGAATGTT CAAAATTAAC 60
ATGCTGTTTA CTCTGAAA 78

(2) INFORMATION FOR SEQ ID NO: 3845:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 71
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04519

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3845:

GATCAGGAAG AACTAAACAA AACCCACACT CCAAAAACTA ACAAAGAATA AATAAATAAT 60
ATAAAAATAA A 71

(2) INFORMATION FOR SEQ ID NO: 3846:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 71
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04520

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3846:

GATCTCAGAA CAGANTTAAA ATATTGTGAA AATTACAGCT TAATAAATGT TTATTGTAAT 60
TTTNTTGTAA A 71

(2) INFORMATION FOR SEQ ID NO: 3847:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 69
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04521

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3847:

GATCTAGGAC TTGCCTTATT TTATCATTTT TCTTTAATAA TCTCCAATAA ACTTTCTTTA 60
TTCATTAAA 69

(2) INFORMATION FOR SEQ ID NO: 3848:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 69
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04522

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3848:

GATCACCACT AAAGAACTTA CTCATATAAC CAAATACCAC CTGTNCTCCC AAAAACCTAT 60
GGAAATAAA 69

(2) INFORMATION FOR SEQ ID NO: 3849:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 69
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04523

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3849:

GATCAGTATG CTGTTTTAAT AATTATGTGC CATTTTAATA AAATGAAAGG GTCAACGGCC 60
CNNTTTAAA 69

(2) INFORMATION FOR SEQ ID NO: 3850:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 67
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04525

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3850:

GATCTACACT GATGATTAAA TCAAATTGGC TAAGATTATT CGTTCTAATA AAAGCACTGA 60
CTCCAAA 67

(2) INFORMATION FOR SEQ ID NO: 3851:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 67
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04527

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3851:

GATCTCTTCC TGTTTTGTAC ATAGATTTAT TTTTCAGTTC CAAGAAAGAT GAATACATTT 60
TGTNAAA 67

(2) INFORMATION FOR SEQ ID NO: 3852:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 67
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04528

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3852:

GATCTAGCAT ATGTATCTTT TTAAAGGTA TTGTTAATAA ATATNCTGTC ATTTGTAAAG 60
ATANAAA 67

(2) INFORMATION FOR SEQ ID NO: 3853:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 66
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04529
- (ix) FEATURE:
- (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3853:
- GATCCATCTT CAAATCAAGG GCTCCCTGGC TACCAAATNC TGTCTAGTAA AAATNATTCG 60
AGCAAA 66
- (2) INFORMATION FOR SEQ ID NO: 3854:
- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 64
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
- (B) CLONE: HUMGS04530
- (ix) FEATURE:
- (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3854:
- GATCTATTCA ATGTACAAA TATTTTGAAA GTTTCTGTGA TTAAATGTNC TTTGAAAACA 60
TAAA 64
- (2) INFORMATION FOR SEQ ID NO: 3855:
- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 64
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
- (B) CLONE: HUMGS04531
- (ix) FEATURE:
- (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3855:
- GATCTGTTAT NAACACCTTT GTTGGCTTGG TTCAGTAATA AATATGTNAG ACTTTTCATT 60
TAAA 64
- (2) INFORMATION FOR SEQ ID NO: 3856:
- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 62
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
- (B) CLONE: HUMGS04532
- (ix) FEATURE:
- (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3856:
- GATCTGTGTA AGCTCTGAAT GAACTTCTTT ACTCAATAAA ATTAATTTTT TGGCTTCTTA 60
AA 62
- (2) INFORMATION FOR SEQ ID NO: 3857:
- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 61
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04533

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3857:

GATCCAAGAT ACGTCATTTC TGTATTGGCA AAATGCCACT ATTAAAGTGT AATTCTTGAA 60
A 61

(2) INFORMATION FOR SEQ ID NO: 3858:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 60

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04534

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3858:

GATCTCAAGT GCTTAATGAT AAGGTGTTGA CTTGTAAAT TAAACCATT T GGAATACAAA 60

(2) INFORMATION FOR SEQ ID NO: 3859:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 60

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04535

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3859:

GATCAAATGC CCTAAAATGT AGTGACCCGT GAAAAGGACA AATAAAGCAA TGAATACAAA 60

(2) INFORMATION FOR SEQ ID NO: 3860:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 60

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04536

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3860:

GATCTGAGAC TTTGAGTCTC CAGAACTGTG AGAAAATAAA TTTCTGTTTC TTAAGCCAAA 60

(2) INFORMATION FOR SEQ ID NO: 3861:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 60

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

- (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04537
- (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3861:
 GATCTTTCCT GTCTTCCCA AGTTTGCATT TCCGACATTA AAGTTTACTT TTNAGTTAAA 60
- (2) INFORMATION FOR SEQ ID NO: 3862:
- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 59
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04538
- (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3862:
 GATCAATCAG GGAGAAAATA CAGAAGAGAA TAAAAAGAGA CTCATTTCAGT GGAAGCAAA 59
- (2) INFORMATION FOR SEQ ID NO: 3863:
- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 59
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04539
- (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3863:
 GATCTGAATT AAGCTGTCTG CCATTGAG AAATTTAAAT ACTATTTTAA ACACACAAA 59
- (2) INFORMATION FOR SEQ ID NO: 3864:
- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 58
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04541
- (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3864:
 GATCCACCCA GGCCTTTCNG TGAAATAAAA GCTCCCAAGT TGGGTACAAA CCAGGAAA 58
- (2) INFORMATION FOR SEQ ID NO: 3865:
- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 57
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04542

- (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3865:
 GATCCCGATC TGAAGGATTA TTGTGAAGAA TAAATGAGAG AATGTGTAAA TGGCAAA 57
- (2) INFORMATION FOR SEQ ID NO: 3866:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 56
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04543
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3866:
 GATCTGTGTA TTTGATTTTG TACTTTAAAT GTGACAAATA AACCTTTTGG GAGAAA 56
- (2) INFORMATION FOR SEQ ID NO: 3867:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 55
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04546
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3867:
 GATCTAATTC TGAAAACATT GTAATAAAAT AATNAGCTAT AATGGTATTT TCAAA 55
- (2) INFORMATION FOR SEQ ID NO: 3868:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 55
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04547
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3868:
 GATCTCGAGC GTTTATCTCG GGCTTTAATT TGCTAAAGCT NTGCACATAT GTAAA 55
- (2) INFORMATION FOR SEQ ID NO: 3869:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 85
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04548
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3869:
 GATCTGCCAT GCACTCAGC CTAGGCAACA AGAGTGAAC CTGTCTCAA ATAAAATAAA 60
 ATAAAATAAT AATAGTAATA ATAAA 85

(2) INFORMATION FOR SEQ ID NO: 3870:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 52
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04552

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3870:

GATCAAAGGT CATTGTGTA GATGAGTAAT TAAAAAATAT TTAAATCACA AA 52

(2) INFORMATION FOR SEQ ID NO: 3871:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 51
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04556

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3871:

GATCAAATAG AAACAGGGTT TGCAAGTNTC CATACAGATG CCTCTACCAA A 51

(2) INFORMATION FOR SEQ ID NO: 3872:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 50
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04557

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3872:

GATCCTATGT AAAATATATA TTTATGTATT AAAAATACTG AAAACATAAA 50

(2) INFORMATION FOR SEQ ID NO: 3873:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 443
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04597

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3873:

```

GATCCTATTT TATAAGGAAT CTTTTTTATA CGAATGTACT TATTCTTTTA GATATCAGTT 60
CTTGAATGTA TACTCCTTAT GATATACAGC AAGAGATTCT TGAGGTTCCC AAGAATTGTC 120
CTGGAAAGAA AATTGATTTT GAATTGAGAT TAGCAGTGTT TTAATTTTCG TGAGATAACT 180
CCTTTAACTC AGCACTTTCA CAAAACCTAA ATATTAAATA AATTGAATTT GAGGCTGGCA 240
TTCTTCTCTA AATTGAATTG GACTGGTTGT TTGCTGAGGT ATGAATGGAG CAGCTCGGAA 300
GTATTATAAT TCCGTAGCTG AAACAGGACG CTTATTTATG TATGNTCCAA TCTCTNCTCA 360
TTTAâââATG NCTCAGCATT TCCNGCCATT TAGATAGGTA AATNAATAGT CCATTANNTT 420
TGNTNACCTA CCATAANTAT TTN 443

```

(2) INFORMATION FOR SEQ ID NO: 3874:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 423
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04598

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3874:

```

GATCTATGGT ACAGTTCATT GGCAGAGAAT CCAAGTACTG TGGACTTTGT GATTCCATAA 60
TAACCATCTA TCGGGAAGAG GGCATTCTAG GATTTTCCGC GGGTCTTGTT CCTCGCCTTC 120
TAGGTGACAT CCTTTCTTTG TGGCTGTGTA ACTCACNNCC CTACCTCGTC AATACCTATG 180
CACTGGACAG TGGGGTTTCT ACCATGAATG AAATGAAGAG TTATTCTCAA GCTGTCACAG 240
GATTTTTTGC GAGTATGTTG ACCTATCCCT TTGTGCTTGT CTCCAATCTT ATGGCTGTCA 300
ACAACTGTGG TCTTGCTGGT GGATGCCCTC CTTACTCCCC AATATATACG NCTTGGGATA 360
GACTGTTGGT GCATGCTACA AAAAGAGGGG GAATANGNAG CCGAGGGAAA TAGCTTATTT 420
TTN 423

```

(2) INFORMATION FOR SEQ ID NO: 3875:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 413
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04599

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3875:

```

GATCCAAATN ACCATCATCT CTGATGGAGA TGGGTTGGGT ACCTGGCCTT CATGGCACCT 60
TCACTGCTAG GGATGCTCAA GGGGCAGGCC TGGGGCCTTC CCTCCTGTCT CTTCTCGGTC 120
TTTCCTCTCT GAGCANCTC CTACCTCCCC TGCCTGAGCC TCACTCCACA GCCCTCCAG 180
GTACCTAGCA GAGGCTGTCA GTCCTTGGCT CACCTGGAAC AGGGCTGGGG CTGGGTGGA 240
ACAAAGTGTG TGCCNCACCA CATCTCTATG ACTCTGTTCT CCCTCCCTGC ATTGTGGCTC 300
TTGTATTTGA GGGCCTCAAG AGAGTGAGGC CCTACCATCA CTGTCCATAT TAAGTCCAAG 360
CCCAAGTGNG GTTCCTCTGT TCCCTCNTAA GCAATCAATN GTTNAGTTTC TAN 413

```

(2) INFORMATION FOR SEQ ID NO: 3876:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 410
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04600

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3876:

```

GATCCACCTG CCTCGGACTC CCACAGTGCT GGGATTACAG GTGTTAGCCA CCACCCCGAC   60
ATTATTTGAA ACTTTTATTT TATCATGAGA GAGTTCAGG AGTCAACTGG AGAGAGATTT  120
TTGGTATGAA AATTACATAT GCAAAAAGAC TGATTCCAGT ACATGAAATT AAATTCAACA  180
TTTACATTAA ATGCCTTCAA ATATGGTAAA ATGGTTTCTT TTGGCACNNT ACCTCATTAT  240
GTTTTGAATG ATTTGGTCTA TCATATGAAA TAACTTTTAT AAATATAGTA NCTCAGGCCT  300
GGGCACAGCG GCTCAAGTGG GAGGNCTGCT TAAGCACCCG AGTTTNAGAC CAGCGTGGAC  360
AACATGGGGG GACCCCTTNC TGTCCCAAAA NTAGCTGAGC ATGGCAGCGN             410

```

(2) INFORMATION FOR SEQ ID NO: 3877:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 402
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04601

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3877:

```

GATCCCAACA ATGGAAC TTT CCTTCTCTGC TGTCAACAAA GGAATAAAAA ACTTCTGTGT   60
GATTTGATAC AGACAATTTA GAAACTTTT GTTTCAAAGT TTCCCATCCA GACTAGCCAA  120
GGAGAGCAAG GGAGGGNNNC TAATAAGCCC ATTAAGGTGT CTCCCAAAC AAATGTTTTTC  180
TTTGTCTTTC TGCCCAATG CAGAAACAGC TGCAGCTTTA AAAANTAGCA TACTTTTATC  240
TTTTGANGGA AATATGTGAA AGTTTTAGCA CTGGTTGTCT TTGGTTGGCA AGAAATTGTT  300
NAGTGTTATN NATTNCTTCC TATTTGNCTG AATTTTNCCA AATTGTGCA CAGCAAGCAT  360
GACTACTTTN NTCATATNAA ATCTCCANTG NATTTATGCA AA                     402

```

(2) INFORMATION FOR SEQ ID NO: 3878:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 393
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04602

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3878:

```

GATCTTGTCA CTAAAATCTA ATTTATATCA AATTTATGAG AGAAAGTATT TTCCTAATNA   60
TGGTCAAATA AATTTGGTTA ACATCCTAGT GATTCTCTTT CTATATAATA AGGCAATTAC  120
AGTTTTCAAA GCATTAAGTC TAACATAACT TTAAACATTC TCTTAGGTTT CAAGACACTT  180
CTATTTAATA TTCATTGGGG AAAAGTTGTC CAGCTATCAG CTAGNGAAAA CACATGCAAA  240
TATGGTTGTG TAAAGTTAAG GGTTATANGG NANNANANAT CAGTAGAATT ACATAATACT  300
AAANGTTGCA GTTGAAGGAA TATCCCAGTN TGTGTTGGTA GTTNCTNNAA GNNTTNTAGC  360
TGTNATTGCC TTGTTTTTNT AGCCCTTNGT TTN                               393

```

(2) INFORMATION FOR SEQ ID NO: 3879:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 392

(B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04603
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3879:

```

GATCTNAAGC TTNCTNCTTG GACACCCCAT ACCCANAGTC CTCCAGGCCA CCCTTAAGTA 60
CAATGTTCTC CTACCTAAGA AGGCATCTGG ATTTTNTCTT TCCTTGAAAA TAGTAAAGAA 120
CTACTCTTTG ACTGTTTTTG ACCTCACAGT GAACCTCAAA TACTACTGGAA TTCGCAATAA 180
ATCCAGTATG GTGGTTATAG ATGTAAAAAT GCTATCAGGA TTTACTCCAA CCATGTCATC 240
CATTGAAGAG CTTGAAAACA AGGGCCAAGT GATGAAGACT GAAGTCAAGA ATGACCATGT 300
TCTTTTCTAC TTGGAATATG TTTTGGTTCG AGCAGACAGT TTCACTTTTT NCTGTTGAGC 360
AGAGCAACCT TGTGTTCAAC ATTCAGCCAG GN 392
  
```

(2) INFORMATION FOR SEQ ID NO: 3880:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 385
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04604
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3880:

```

GATCTCACCA CTGCACTCTA GCCTGGACGA CAGAGGGAGA CTGTCTCCAA AAAAAACAA 60
AGAAAGAAAG AAAAACTGT AAAAAAAT TTNCTGCAAT GGNCTTAATA TGTGTGTCCC 120
TTAAAAATGT ATATATTGAA ACTCTAATCC CAATGTGATG TTATTAGAG GTGGGGCCTG 180
TAGGAGGTAA CTGGGTCCTA AGGGTAGAGC CCTCATGANT GAGATTAGTG CCCTTATAAG 240
ANGCCCAAAA GCTAGCTACC TCTNTTTCCA CTATGTAAGG NTACAAAGNG AAGTTGGCTG 300
TCTGCAAACT AGAAGAGGGC TGATACAGTT TGGCTGTGTC CCCACCCAAA TCTTCATCTT 360
AGGTTTTTAA CTNCCGCAAT TCCCN 385
  
```

(2) INFORMATION FOR SEQ ID NO: 3881:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 383
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04605
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3881:

```

GATCTTAAGG TAATTACAAA AGGGAAATTC CAAGAATGCA TAACACAATG ACAACATGGT 60
GAGAAAAGTG CAGTACTACT TCCAAGGTAG CTAGTGTAAG GGACACTTGA GTTTTTAAAA 120
CTGTGGTTAA ATGTTTTATG TGGAATTTGA TGAGTTTGTA TATTAAATAC CACTGCTTGC 180
TGCTTTTACT AGAATCAAGT TAAGGGNCAC GTTAGAAATA GAACAGCTTA ATATCACTGG 240
CTTCAGAGCA AAATGAGCTC GGGTGACTGC AGATTATGAT GGTAATATG GCTTTAATTA 300
CAAACATGNG GNATGATTCA CTGAAGGTGA AAAGNTAGGG CGGNTGTGNT ATTGAAAAAA 360
AACCANCAT TTTTGGCATT GAN 383
  
```

(2) INFORMATION FOR SEQ ID NO: 3882:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 383
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04606

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3882:

```
GATCTATTTTC TCAGTAATGA GTGTGTNCTC ATGCCTGTTT CAATATTGGG TTTTGGAGCA 60
TTATTGTACC AGGCTGTTGA TTGCATACTG TAGAAGATTT GATGTTTANA CTGGTTCTTC 120
TTCATATACT ATGTTTNGTC TCAGTTNCTA TGCTATTGGA TGATACTTCA TTTGTTGTTC 180
TGGTGTCTGAT GAAAAGGGNA ACCTGCTCTC CTCTATTTAG ACCTTGACAC TTATTACTGC 240
TCAGTTGTTN CTGGAGCTGA AGNAATGAAA NGTCTGGAAG GAACAGCTAT CAGATGTGGC 300
CATTGGGATT GTNACAAATG AGGAACCCTG TGTACTGGGA CAGTTGCCAN AATAATATAT 360
GTGGCCTNCT ATAATGTGCA TTN 383
```

(2) INFORMATION FOR SEQ ID NO: 3883:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 380
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04607

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3883:

```
GATCTGAAGC CAGAAGGGCT GAGTGTATTG TNAACTTATT CTTGCATGTN GCTGTCTGGG 60
AATGGACCAC ACTACAGCAG GTAGTNCTGG GGGCGATACT GCCGAAAGNC CGANACATG 120
TATTTTGGCT GCAATTGAGG NNCTTGGGAT GCTATTAATT TTGTATTTCA GCAACTGCCC 180
CTTCTCCTAT CCCAAGCAC CAATTACTNC CCTCTGCCTC AGNGGTACCA GTATAAGATG 240
ACATTCAAA GACTGGAGGC AACTCAGCCT GAGTTAATTC ACAAATTAT GCCATGCTGG 300
GGCTTGAGCT TGAGCTTGGG CTTAGGCTTG GGCTCAGCTT TTGACCCTCA GGCATCTCCT 360
TTNCCTTNCT GTCTTNCTTN 380
```

(2) INFORMATION FOR SEQ ID NO: 3884:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 377
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04608

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3884:

```
GATCTGTTCA CAAGCTGGTG TTCAGGAACC AATGTGTGAC TGGTCCATGC CCACTTCTGA 60
TTATATGGAC TCAGAGACAA TGTACATGGG AGTGCTTTGC CAGTGGTAAA GTTTCTACAA 120
ATGGGAGGTA ATTGCATGGC AGGTGTAAAG TTATTTGGAC CATTGAGGCC AGAAAAATG 180
TAGATTTAAA ATATACTGAT ACTGAAAGCA GANCTGTTTG ANCTAATTGC TAATTTTAAG 240
GNATTCAGAC ATTCATCCAA AGGNTTTAGG CCAAATGTTG CCTAAATTGT TTCTCTATTG 300
```

CATATGAAAG TGATTTTCNGC GGCTTAACNG TTCTCTNCTN TTTATGTGCA TGGCCATAGC 360
TGGTTGTNTT CACATGN 377

(2) INFORMATION FOR SEQ ID NO: 3885:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 367
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04609

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3885:

GATCAAGGTG AAGCTCACAG TGTCAGGCTT TCTGGGAGAG CTCACCTCCA GTGAAGTCGC 60
CACTGAGGTC CCATTCCGCC TCATGCACCC TCAGCCTGAG GACCCAGCTA AGGAAAGTTA 120
TCAGGATGCA AATTTAGTTT TTGAGGAGTT TGCTCGCCAT AATCTGAAAG ATGCAGGAGA 180
AGCTGAGGAG GGGAAGAGAG ACAAGAATGA CATTGATGAG TGAAGATGTC GGCTCAGGAT 240
GCCGGAAGAT GACCTGTAGT TACCAAGTGA ACGGGCAAAG CCCCACAGTT TAGTCCTTTG 300
GAGTTATGCT GCGTATGAAA GGATGAGTCT TCTTCCGAGA AATAAAGCTT GTTTGTCTC 360
CCTGAAA 367

(2) INFORMATION FOR SEQ ID NO: 3886:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 360
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04610

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3886:

GATCAAAGTA GCTTACTATA TCTAAACTGT AAAACAATAT AGTTTCTCCT GAACACCTGC 60
TTTCCTTCTG GGAGTCTGGA ATTTTGGTAT GTGCCAGGCA GAGACTACCT TTGTGACCAG 120
CTCCAGTAA AAACCCAGG CACTCAGTCT CTAACAAGCT TTTCTGTTG ACAGTGTTC 180
ACAAGTGCTG TTACAAGTGG TTGCTGGGAG AATTAAGCTC ATCCTCTGTG ATTCCACTGG 240
CGGAGGATTC TTGGAAGCTT GCACTTAGTT TCCCCTNGAC TTCACCCCAT GTGTCTTTT 300
TCCTTTGCTG ATTTTGTTTT GTATCCTTC ACTGTAATAA ATCATGGCCG TGAGCAGAAA 360

(2) INFORMATION FOR SEQ ID NO: 3887:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 359
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04611

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3887:

GATCGCAAGT GACTGCTTCC GCTTCCAGGA CTGGGCCAGC TAGTGGGGGT GGCAGAGGTC 60
TCTTTGCTTC ATTCAGCCCT AGCTCTGTAG AGAAATGCAA ACCTCGACTC TCAAGGATGT 120
GAGGAACACA AGTTCATTTT TGTTGTTGCG GAGACACTGC AGACTCCACT GTGCCGAGGT 180

TGAACTCTTN NTTGTTGCTC AAGTTCTAGG AGTCCCTTTC CTGAATATAT ACTTGTTTGT 240
 CATAGTTTCC TTNNCAAGT AGTAACTTT TCTATTNNTC TACTTGCCCA GTAGAGACTC 300
 TTGATTCTGG AANATTCTNG NCAAAATAAT TTTAATAATA CACATGGTTG CTTCTTAAA 359

(2) INFORMATION FOR SEQ ID NO: 3888:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 359
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04612

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3888:

GATCACTTGA GGCCAGGAGT TCAAGACCAG CCTGGGCAAC ATAGTGAGAA TGCATCTCTA 60
 CAAAAAATAA AAAAAATTAG CTAGGCATAG TACCTGAGGC CAGGAGGTCC AGGCCGCAAT 120
 GAGATGTGTT TGTGCCATTG CACACCAGTC TGGGTGACAG AGAAAGACCC TGTCTCANGG 180
 GCANNTTAAA TAAAATATCT TCATATATAA ATTAAGCTAA TTAAAAATAT TTTTCCCTGT 240
 ATTTNTTTAN TATTTTCTAA TCTGAACCCA TATNCAGCTG ACTANTTCAT TCTTAGAANT 300
 GTGTTATCTG TAATCTNTCC TAAACAGTGT AGCCCAAG GNTCCATGGC ACTTTTTAN 359

(2) INFORMATION FOR SEQ ID NO: 3889:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 359
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04613

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3889:

GATCTAAAGG GGACACTGTA CTCAAGCTTT TNACCTCATG CCTTGTGTAG TAAAAAAGGA 60
 TTTGGGGGTT TTGTTTGGTT CTGAGAGGG TTGTGTTTTG TTTTGTTC CTTTGTTA 120
 TGTTTGGCC TTTCTCTTT GTCTTCCAT GTAGACCAGA TATTGAAAG GGCAGACGAT 180
 GGCTAGAGGT GTAATGTGCA GCTTGTAT ACGGTATTTT GGGAACTTA CCTTGGATGG 240
 GAAATCGAAT CGTGGATTCA CCAGGCCGGT GCTGGCACAC TCACCCTCGC CCTTCCCTC 300
 CGGTTCACTA CCTATTGTTT CTCCTTCAA ATATGTGATT GTACTAGCTC TTTCCATAN 359

(2) INFORMATION FOR SEQ ID NO: 3890:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 358
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04614

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3890:

GATCTGATGG GCTTAACAG TGCTTACTTG CAGCCTTGTG TCCACCACCA ACTTCTCATC 60
 ATGTTTCTCT CCGTTGGCCG TTGGGTTTCC AACTCTTCAA NCTTCAGGT CTGGGNCAGG 120
 GAGTGGGCCC ACCATTTGTG GGGAAAGTAT CATTCCTCCA CTCAGGCTT GGGTAGATTT 180

GGAAAAANAC AAGGTNAGGA TACGCCTGTT TGAGCTTTGG GGNATGAACT TTGCTTTTTTA 240
 TATTTANCTA NGGNTACTTT TATATGATGG GTGCTTTGAG TGTNATTNAG CAGGNTCTCT 300
 TNGTTTCCCG AGGGNCCTGC TTTTGNAAGG TGACCNNGGT TACTTAAGCT AAGGNTTN 358

(2) INFORMATION FOR SEQ ID NO: 3891:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 356
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04615

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3891:

GATCAACCCA CATTAGAGTG TCTAAGGACT CCTGAGAATT CCTGTTACAG TAAACAAAAC 60
 TAACGTAATC TACCATTTCC TACACTATTT GAGCATGGAA ATCATAGTCC CCACTCTGTG 120
 AAAACTTAAC GCTTTTTTGA AGACATTTCT GTAGCATGTC AGTTTGGAGA AATGNNTGNG 180
 CTACGCCTTG ATGAAAGAAC CGTGTTGGTG CTGCTAAGTT TAGCCATTAT GGTTTTNCCT 240
 NTCTCTCTCT TAAGCCTTAT TCTTCAACTA AAAGATGAGG ATTAAGAGCA AGANGTTGGG 300
 GGNNGATGTG AAAATAATTN TATGNGGTTG TCTAAAATAA AGAGTAGTTT CTTAAA 356

(2) INFORMATION FOR SEQ ID NO: 3892:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 355
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04616

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3892:

GATCTACAAA TGTACGTTGT TACAGGGCTG CTTCTAAAG ATTTTTTTTTA CCTCAGGTTT 60
 CTCTTAATAT AGTTCTCCAG TCACTGACCT TGAATTGACT TACATAAATT ACTGCCAATG 120
 TTTAAATTGC CCTTATGTTT ATATTTATTA TGTCAAGCCA ATTCGTACAT ACAATTTGGA 180
 ATCAAATGTC ATAAGAATTT ATTATATAAA TTTNTCAAGA ATAAAAATGC CTCTCCAGCC 240
 TTAAGTATTT ACATGCTCCC AGGTCATTGT CAGTTTATGG TATTATGTTG TTTTATTTAA 300
 AGCATTGAAT TGATAGAAAA AATTGCTCTG TAATAAAAAT CTACTTTCAC ATAAA 355

(2) INFORMATION FOR SEQ ID NO: 3893:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 351
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04617

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3893:

GATCTCATTCT TTNTTATGGC TGCATAGTAT TCCATGGTGT CTATGTACCA CATTNCTTN 60
 ATCCGGTCCA CCACTGGTGG CATTTAGGTT GATTGATGTC TTTGCTATTG TGAATGGTGC 120
 TGCGATAAAC ATGCATCCAT GTGTCTTTAC AGCAGAACGA TTTATATTCC TTTGGGTATT 180

TTTTTTGAGT ATAGTAATAG GNNNNNNGGG TGGAGTGGCA GTTCTGTTTT AAGTTCTCTG 240
 GGAAATCACC AAAGTCTTTT CCACAGCAGA TGAAGTAGTT TACACTCCCA CCAGCAGTGT 300
 ATAAGTGTTT CCTTTTCTCT GCAACCTCAC CAGCATCTGT TATTTTCTAG N 351

(2) INFORMATION FOR SEQ ID NO: 3894:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 350
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04618

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3894:

GATCTTCTTG TAAGCACATC CAGAGTGAGA CTTTCTATG TTTGAAAGAA GAATGTGTGT 60
 ACATTTCAAG AATTTGGGTT TTTTGGAGGG AGGAGGAACT GTTTACGTTT TTCCTCCACA 120
 CGTTTGATTT TTGACACATA CACCCCTAAT TCCTCAACAG CAGACCTCCT GCAGCCACCA 180
 GGGGCCAGCT CTGTGTAGGA ACCAGATGGT CTTTTTCCAA GCNGCATCTT CAGCTGCCAG 240
 CTAAACTCCA ACCCCAGNCA GGGAGGGGCA GGCTCAAGTC TTNCAGAATC ACACAGGGGC 300
 AACACATGCA NNNNCCGGNA CCTGTNCTGT ACNGTCTNGG TTTNTTCNTN 350

(2) INFORMATION FOR SEQ ID NO: 3895:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 348
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04619

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3895:

GATCCATAGG AGGGTAAAAT GTCCGTTTTT TTCATTAAAA CTTCTCAGCT CAAATTTATA 60
 CTAAAGCATA TCCAGGAATT AAAAAAAG GTTTTGATGA TATTGCTTT CTAGTTTAAT 120
 AAGTTTAAAT ACTGAATAGG TTAAATTAAT ACAAATAAC ATAAATGCT AATATTTATT 180
 GAGTATTTAC TTGTGTACCC ACTACGNTTT TAAGTAATTT ACTGGGATTA TTTTATTTTA 240
 GTTTAACAAT GCAGGTAGCT ACTATAATCG TCCNGGTTT ACACCTGAGG AACAGGCTA 300
 AGAGAGATTA ANTTAGTGGC CCAAGGTCAG AAAGCTCGTA ATTCTTGN 348

(2) INFORMATION FOR SEQ ID NO: 3896:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 347
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04620

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3896:

GATCCCAAAT ACTGCCATTG TGTTGTCTAC TTATGAGTTA ATTGTGTACC TGTTAGAAGA 60
 CCGTACTCAG TAACAGGCCG GAAATTTGTG CTCTAGAAGA ATAAACTGA AAACTCTAG 120
 AGAATTTTTT TTCCCATTG ATGTTTAGAA AGTTTGAGAC TGAAACAGGA AAGGCCATAA 180

AATATCTGGT TCATATCACC TGTTGGACAT TTCCTTTTGG ATTCATGCTT TCTGGAAGGT 240
 TTAAATTCAT TAACGTTAAT AGTTAATTAT AACTNTTTNT TTAACCTAAG AGGATTCAGG 300
 GTTAAGCACC AACTAAATTA AATCATGCTA TTTAATTTAN GTATAAA 347

(2) INFORMATION FOR SEQ ID NO: 3897:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 345
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04621

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3897:

GATCTAGAAT CTNTNCTNGG NTAAGCATAT AGGATGCCAC TTCTTGCTAC CTCCACAGCA 60
 ATACATCACC TGGACAGCTT GCCACTCTTT GTTGCCCTTGA ACTTCTCTGA TGTTTAGGCA 120
 GCCCATCTCTG GTACTGAGAA CACAGTGAAT GAGCTACATC CTCCTGCTTT CTTCTTCTAT 180
 TATNACTTTT ACCTGATTTT TTCTCAGGAG GAAGCTGTAC ATTTTAACAG GACAGATAGG 240
 AGGAAAAGCA ACTATTTTTT TGCCGAGATA ACAATTGACA ACTTGGGGCA GTATGTGCAG 300
 AGTTTTCTTG GAGTTGTATT AAAAATTATC TGATAAGCTG CCAA 345

(2) INFORMATION FOR SEQ ID NO: 3898:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 342
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04623

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3898:

GATCAGTGTA CTGTTACCCG GACATACCTA TTCCTTCACA AGTTCTGGTT CTTCAGTGCT 60
 GCTTACTATT TTGGTAACTG GGCCTTTCTT GGGGTATTTT TGATTGGATT AATTGTATCC 120
 TGTTGTAAAG GGAAGAAATC GGTTATTGAA GGAGTAGATG AAGATTCAGA CATAAGTGAT 180
 GATGAGCCCT CTGTCTATTC TGCTTGACAG CCTTCTGTCT TAAAGGTTTT ATAATGCTGA 240
 CTGAATATCT GTNATGCATT TTTAAAGTAT TAAACTAACA TTAGGATTTG CTAACNAGCT 300
 TTCATCAAAA ATGGGAGCAT GGCTATAAGG CCAGCGATAT TN 342

(2) INFORMATION FOR SEQ ID NO: 3899:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 410
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04624

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3899:

GATCTGGTGC CCCTCTTCTC CTGGATTCAC ATCCCCACCC AGGGCCCCT TTTACTAAGT 60
 GTTCTGCCCT AGATTGGTTC AAGGAGGTCA TCCAACGAC TTTATCAAGT GGAATTGGGA 120
 TATATTTGAT ATACTTCTGC CTAACAACAT GGAAAAGGGT TTTNTTTTCC CTGCAAGCTA 180

CATCCTACTG CTTTGAACCTT CCAAGTATGT CTAGTCACCT TTTAAAATGT AAACATTTTC 240
 AGAAAAATGA GGATTGCCTT CCTTGTATGC GCTTTTTACC TTGACTACCT GAATTGCAAG 300
 GGNTTTTAT ATATTCAATA TGTTACAAAG TCAGCANCCT CTCCTGATTG GTTCAATNAT 360
 TGAATGTGCT GGNAATTNA AGGTCGGTTN NANTTTAAAN CAAGGNTNCN 410

(2) INFORMATION FOR SEQ ID NO: 3900:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 338
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04625

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3900:

GATCAAGATA TAGAGCATCT CCATTTATAA AGTTCCTTCA TGCTCCTTCC CAGCCAGCAA 60
 TTCTNCTTAC TGTCTGCTG ACTCCTGTTT TCACCTTCAT CACCATCAGC TCATTTNGCT 120
 TGTNCTTGAC TCATAACAG AATCATATAG TAGGTGGTTC GTTCAATGTA GGCAGTCTGT 180
 TTTNGCTTTA ATCATTACAT GAGTATACAT CCATATNGTG TGAAGCAGTA GTTCTTTNGC 240
 ATTGCTGTGT AATATTCCAT TGTATAATTG TATAAATATA TGTGGTATAA ATGTAAGTAT 300
 AGCACANTTG ATTCCTTATN GGGCCACTTG GTTTATTN 338

(2) INFORMATION FOR SEQ ID NO: 3901:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 238
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04626

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3901:

GATCCACTGG TAAAGGGCAT CCCAGAGGNC AAAAATCCCT TCAAGGAGCT CAAAGGAGGC 60
 TGTGTGATTT CATAATACAA ACAAAGAGAA AAAAATTAN ACAAATTCTT GGAAATATCT 120
 CAAATGTAA TAACAATATG ANTTTTTCTC ATGCATACTA TTACTACTAA GCATGTACGT 180
 GANTTTTAA ATGTATAGAT GTAAACTTTT ANTAAANNTT GGGGTGTGGT AACCCAAA 238

(2) INFORMATION FOR SEQ ID NO: 3902:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 331
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04627

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3902:

GATCTCTATA AGTTATTAAT TTAACCTGAA ACCAAAGTGG TCTCCATTTA AAGTTACTTA 60
 ATCCCTTTGT ACCACCTATT TCTAGTTAAA TATATGTNGC TANNCAAATA GGTAAGTGC 120
 TTCCTTGCCA TGATGGTAAT GGATTGGAAC TATGAAGGCT CTCAGTGTAT TGGCTTCTGT 180
 AAAGATGAGG CGTCTCTCA GAANCCCNAA CTTTTACAT TTCTGCTTAC TAGACCTGGG 240

TTGATGTACA TGGTAAGTCT CAAACAGATG CAAGCTATGT GCAAAANGGA ACTTTAGCCA 300
 AATGGAAATA GCTGGATGCT TTGNGAATTG N 331

(2) INFORMATION FOR SEQ ID NO: 3903:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 67
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04628

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3903:

GATCCAAACT GTGTTGTTCT TAAATCAAAA ATTGGNTAAT TTTTAATATN TATGTATTAA 60
 TCACAAA 67

(2) INFORMATION FOR SEQ ID NO: 3904:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 327
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04629

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3904:

GATCTGCCGG AGTCTTGAAA TTCAGCTGAT TGGAAGTGGT TTCTTTGACT TTCAAGGTCA 60
 TTCCCTATCA GTTACTACTA AGAGTTCTCT TACTGTCAGA ATCTCTCTTG CAGTACAGCT 120
 CAAAATAGTG GATGCATTTT AAACCTTGACC ACCTTTTCCT ACCAGCTAGT TAGAAGTCAT 180
 CAATATTTCT CTACATTTNG TTTATCTGTA AGTCCTTTAA ATCTATTTTN GCTAGGCATT 240
 CATTATGATT AATAGTAGAC TTTTAAGACA ACATTTNTGT CACTCCCCAC CTCCTCATAT 300
 TTNATAAAGG AGATATTTAC CTTGAAA 327

(2) INFORMATION FOR SEQ ID NO: 3905:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 326
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04630

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3905:

GATCAAAGAC CAAAACATTT TCTTAAATAT ATTTTATGTA ATATTTTATT TGTATACAGT 60
 GTTGTGTGATG AAATATTTAA CTAGAGCATG ATATTTTAAA TGTTAAGGTG TAACATATGT 120
 TAAATAAAAC TGTTATTTTN GAATTTNAAA ATTNNGTTTT NGGGGGTATG ANCTACTAGA 180
 GTTTAAAATT CTGCCAACT ATTACTTATA TGTNCTATTG TGTAACATAC TTNCTNGAAA 240
 TATTTNGGTT TATAGAATTG ANGTTCTTA TCAGATGGGA TACTGGGGAC TATAACAAT 300
 GGAAATAAAG CCACTGTATT TNTAAA 326

(2) INFORMATION FOR SEQ ID NO: 3906:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 325
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04631

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3906:

```
GATCTAATTA AGCTAAATTT TGGTGCACAG CAGGTTGTAC ATGATTTTCAT GTTTATGTAG 60
CAAAATGCAT TGAAATGTAT TAGTGTGTA ACATACATGT AAAGGTAGTT GTGGAAATTG 120
TTATATTTNC CTTGTGTGTC ATTTATTTAG AGCATAAAGG TTTTTTTTAT TCAGCCNNNC 180
TGAATAAGGC TAAATGAATA CTGTAATTGA AAATATATTT NAAATCTTTG TCATGAGTTT 240
TTTTAAAAAA ANCTATTGCA AATTGTATCA TTCCTGATTA CACAGAACTT TGTGGGTGGT 300
TTTAANTAAN TNTNNTACTT CTAAA 325
```

(2) INFORMATION FOR SEQ ID NO: 3907:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 324
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04632

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3907:

```
GATCTGGCCC GAGCTCTCCT CAGACCTCCC CAGACCTGTC TTCTCATCAG CCACCGCTGT 60
TTTCTTTTGC CGAACGATGG TTGCATCTCT CGGACACAGT GTACCCCCTC CCAAGCCCTC 120
CCTGAGCCGT TCTCCTGAGT CCCTGAGGGC AGACACAGCT CCAGGGACCC AGGCCGGCTG 180
CCACACCCNC GACACTNCTG NTGTCCACTG GCCTTAGCTC CTGCAAGTTC CCCAGTGTCC 240
GCACCTGTTT CNTTCCCTGA CTTTACCTTN CTGGGGTCTG TGA CTGACTG GAGATAAAAN 300
TAAAAGCAAT TGTGACANCT GAAA 324
```

(2) INFORMATION FOR SEQ ID NO: 3908:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 319
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04633

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3908:

```
GATCAAATAC CGAAATTGAA CTTTCTAAAA CCTACACATA GCATGCGTTT AAATTCTATT 60
ATATAAAGCC CCAAGTGCTT TACCTTCTAA AACATGCTTC TCTATAGGTG CAAAGTTATA 120
AGATATGTAG AAGAAAACAT CCATCAGAAT CTNCTGGAGA NTATGGTCAG AGTCTTAAAC 180
AGGCCCAAGT CTGAGTNCTT TGTCCACTTA GTCACACATC TTTTGTGGGA ATGGGAAAGG 240
AAGGAGACAG CCAAACTCTG ACAANGGCTT TTCCTTATAG ATTAACCCAA AGCCTAGGTG 300
AGGGTTGATA TATTAATGN 319
```

(2) INFORMATION FOR SEQ ID NO: 3909:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 317
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04634

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3909:

```
GATCTGAGCA AAATGTGAAC TCAGTATGTT TACTATTGCT CTTACTTGAA AACTTTTTTTT 60
CAAAAAAAGC ACAAATTAAA GTAGTAAATT CATATCCATA GATAGTTCAT TCATTCAACA 120
AATATTTTACC AAGTTCCTAA TATAAGTGAA GGNCCACTTC TCAGATTACT AAGTCATTG 180
TATGAATATG TGTGGCAGTG AAGAGAACAG GTCTTTCAAA AAGCATTGGA TTATCTTTAT 240
TTNTTTTAAA TACACTCTCT NATNTTNCTA CTTGTTTTTT TGTTAATCAT AGCAGGATAT 300
GACAACTCTT ATTTGAN 317
```

(2) INFORMATION FOR SEQ ID NO: 3910:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 317
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04635

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3910:

```
GATCTACTCA GATGTCATNA TACTCCATAC CTGCTTTTCC CATGGCCGCC CTACGGAAAA 60
TCCCATCCAC AGAGGCCAGG GCTACCCAAG NCCCTCCAGG TGAGCTGGGC CTTTCCTTTA 120
TGAACCTCCA TCCTCCAGC CAGCTACAGT AGGGCCTCCT CACCCCGTAC CCCACAGCTA 180
GACAGTGTCA GCACTCATCT CCTCCTCCCA CATTTNTGGA GCTTTTTTTT TCCTTCNCA 240
TTGACCTTTG TGGTCTTCTG TGATTATTTA TGCTGCCTCC NAAGGATAGA ATTGAAATAA 300
AATGTTTTCA ACTTAAA 317
```

(2) INFORMATION FOR SEQ ID NO: 3911:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 316
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04636

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3911:

```
GATCAAAGGT TCTTCATTCA AAAAGAAGCA ATATCCTTTT GCCTGATATG GGGTGGGAAG 60
GGTAGGTGGC GATGATATTT CAAATGAATT AGAAACCACC TCCCATTTGA TGATAGCTGG 120
AGAAATGGAC TGACCTAGAA GTTACAGGAC CAGAAACTAC AGTCACCACT AACCTTTCTA 180
CGTGGCACC AGCCCCACTT GGAGACATTA TTTTTCATC AAACACAACC GTACTGCACA 240
GACATCTTCA CTGTCTGTTG CAAAGATTGG AATACGTAGA TTTCTGTTCA AAATTAAATA 300
ATATTTTAAA TACAAA 316
```

(2) INFORMATION FOR SEQ ID NO: 3912:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 316
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04637
- (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3912:

```
GATCCACTGG TAAAGGGCAT CCCAGAGGAC AAAAATCCCT TCAAGGAGCT CAAAGGAGGC 60
TGTGTGATTT CATAATACAA ACAAAAAGAA AAAAANTTAA ACAAATTCTT GGAAATATCT 120
CAAATGTTAA TAACANTATG ATTTTTTNTC ATGCATACTA TTACTACTAA GCATGTACGT 180
GANTTTTTTAA ATGTATAGNT GTAAACTTTT AATAAAANTN GGGGTGTGGT AACCCNGNGG 240
GNCTATGTTT TNNTTAACAT AGCTGGCACA GGGTTTAACA CATAATNGCC ATAANTATTG 300
CTTAAGGTNC TTAAAA 316
```

(2) INFORMATION FOR SEQ ID NO: 3913:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 313
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04638
- (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3913:

```
GATCCACCTG CCTTGGCCTC CCAAAGTGCT GGGATTACAG GTGTGAGCCA CTGTGCCCCG 60
CCAAACCATT TTTGTTTAAT TTCATTTCTA CATGGTCGTC AAACGTGCCT ATCCAATGAA 120
GCCTTCATAG AAGGCCCAAG AAGACAGAGT TTGGGGAGCT TCTGGATAGC GGANATGTGG 180
AGGTTCCAGG AGGGCAGGGT GCCCAGGAAG GGCATGGAAG CTCCGTGTCC CTTCCCCATA 240
CCTTGCCCTA TGCATTTCTT CATCTGTATC TATTGTGATA TCCTTNACAA TTAAACTGGT 300
AAACATANAT AAA 313
```

(2) INFORMATION FOR SEQ ID NO: 3914:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 312
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04639
- (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3914:

```
GATCACCAGC TCACGTCATG TTGCCTTCTC TTTTCTTTGT GTGTGTGTTT ATTTAAGTNA 60
TTTTTCTTCC TCCTCTCCCT TTTCTTTTTG GCCCTCCCTC CCTCCCTCTN CTGCCATGTA 120
ACTGGAGGAT GTGCTATGAG TTTGCAAACA GCTGGACTGT CAGGCTGCTT TTTTTCAG 180
TGTTCCCTCT CTGCCTCCCC TTCCCCTCCT CTCCCCTCCT TTTCTTCCT TCCTTCCTTT 240
CCTTGAGCA CTGAGCACCA TTTGGAAGCT TGAGAGAAAC CAAAATTAAA GAGAGAAAGA 300
GAGAGCGTGA AA 312
```

(2) INFORMATION FOR SEQ ID NO: 3915:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 311
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04640

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3915:

```
GATCTAGAGG AAGTACAGCC ACCCACTGAC ATCTGANTTT ATATACCTNT TGAGTTTTGA 60
GTGCACCCAA AACTTCGATA AACCAGGTGA AGAAATTTAG CTTCCATGTT CTA CTTCAGC 120
TAAACAGCT ACATACAACC TAGTACCCTT GANGTCAGAC AGACATTTC A GTTGCTTACC 180
TCCAGTACTG AGCCTTGCTT TGGGAACTA AAAGATTTAG ACCAAGTCAC TGCCAGTTTT 240
NGCCTTNGTN GCATTNGTA CAGTTTTTAT ATNTNGGATA TCTTGTAAT AAAGACAGCC 300
AGCTTTTCAA A 311
```

(2) INFORMATION FOR SEQ ID NO: 3916:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 308
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04641

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3916:

```
GATCAAATCT AAAATAAGTA TAATGCATTG TAATTCCAGA GATAAATCCT AGACCTTCT 60
TGGCCTCCTT CTNACATAAT TCTAATCCTA CAGTCTCAGA GATGCTGTTG TATCCTGCCC 120
CCCAACCCCA TGATAGTNAT AGTGGTTTTT GCCTTGAAGG AATTGCTTTG TATTTAGCTT 180
TTCCCCCTCT AGATTTCTAG TTCCTTTTCA GTATTGGATT GGATTTGAGA TTTGATTAAAC 240
CTAGTACTGA GGTTCAGATG CTCGCCTCTT TGCAATTTTA AACTCATTG GACAATAAAG 300
TCAGTNGN 308
```

(2) INFORMATION FOR SEQ ID NO: 3917:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 306
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04642

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3917:

```
GATCTAATGC ATCCTATATC CAGTAAGTAG AATTATCTCT TCATCTGGGA CCTGGAATC 60
CTGAAATAAA AAAGGATAAT GCAATAAACA CAGTTGCAGG AAAGTATGTT AGCTATATAC 120
TATGAAGTAC TCTTAGTTTA CTTATGTTGA ATGGCTTAGC TATTAATACT CAAATTGAGT 180
TAAATGAAA ATTCCTCCTT AAAAAATCAA ACGTAATATG TATTACATTT CATGGTACAT 240
TAGTAGTTCT TTGTATATTG AATAAATACT AAATCACCTA GGTGTCTATG TTCTATCACA 300
TCTAAA 306
```

(2) INFORMATION FOR SEQ ID NO: 3918:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 306
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04643

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3918:

```
GATCAGCTGC AGCAGGNTGG GTCCCTCTGC ATCTGTCCAT CACTGCGACT GATGGCAATG 60
ACTGAGTATA ACACCTTTCT TCATGGTCAA CTCTACCCAG GAACCACGTA GGAAGGAAA 120
TTCTGGAAAA CAGCTCCCAG CCTTAGCCAA CTTGACATAT CATAATCCAA CAGANCTCAA 180
CCTCTACCAA CTTGGAAATC ATGTACATTT GTCAGGACTG TATTTAATTT CCACATAGAG 240
AGAAAGCAAA ATTATACTTT TGACCAAAC AATAGANTTA TCCATTAAAC ANACAAAAC 300
GTGAAA 306
```

(2) INFORMATION FOR SEQ ID NO: 3919:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 306
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04644

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3919:

```
GATCCTCCCA GCTCTGTCTC CCAAAGTTCT GGGATTACAG GCATGAGCTA CTNTGCACAA 60
GCTAAGAATA TGTGCTTTTA AATCCCATAA GGAAAAAAT ATTTTGGTA AATAAAATTA 120
AAGCATAAAT ATCATGATTT ACCTGACGTT TACCGTAAGC AACATAAAAG ATATGTGATA 180
CTGAATGACT AAAANGTAGT TTTGGTTAAA GAGAGTTCTA GTTTCCATGA GGNCTCTGAC 240
AATGCTGCAT TTTATTTTNC TTTTAAATGT GCACATTGGT ACANGTTTAA CTACTCTACT 300
CCTGTN 306
```

(2) INFORMATION FOR SEQ ID NO: 3920:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 304
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04645

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3920:

```
GATCCTGTGA TGAAAAGCCC TAAAAAATAG GGTATAGAGT TTGGGCATAT TTCAGAGGTA 60
ATAAGAAAGC ATTCTGCATT TTAAAGTAA GGTTTAAAAA TGTTTCTAAT TAGNGATACA 120
GCAAAGTTGG TGTGAGAGGA TAAAGCTGAT ATACATAATC TGAGGAGTTC ATGAAAATTC 180
ATGTAAANCT GTAGTATGAA TTGGCCTAGG NGCAGCAGCT NAGGGCATAG NGACTTTAAG 240
ACTTTTCCAA GAGAGTGNAG GCTGGNGATA AATTGTGACT AAAATATATT TTGTGTTTGN 300
GAAA 304
```

(2) INFORMATION FOR SEQ ID NO: 3921:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 301
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04646

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3921:

```
GATCAAGTAA TTCTTTTCACT AGGTTGGGTT TGGGGAGGGG GGAAAAGAGG GGCTTTTCCT 60
AGGAGAACGA TAAGAAATGG AAAGACTCCT TGAAGTGTG CAAGGGAACC TCCTAGCACT 120
GTGAAAGTCA GAATCGCCTC AGCATTTCCTA TGACGCACAT TATGCAAATC TTTTTCAGCAC 180
TATTTTAAGT TTGAAAACCT TAACAATGAA GGGGAAGGGG AAGNTTTCCTA CCAACTGANT 240
CATTTGTGCA CGTGTATAGC TCAAAGNGCT TAGACTTCAA ATATATCTGG TGAATGACAA 300
A 301
```

(2) INFORMATION FOR SEQ ID NO: 3922:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 301
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04647

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3922:

```
GATCTGCCTG CCTCAGCCTC CCAAAGTGCT GAGATTAGAG ACGTAAGCCA CCATGCGTGG 60
CCAATAAGAC TGACTTTTAA TTTTCCTTTC TTGTACTGTT CTTGTCTTGT TTTGGTATCA 120
AGGTTATATT AGCCTCATAA AAGGAGTTAA GAAGTGNTCG CTCTTTCTAT TTTCTGAAGG 180
AGTCTGCTAA GTATGAGAAC TCTCTATTTT ATGAATGATT GATAAAACTC TCTTGGAAC 240
TGTCTAGACC TTATGGAAAT ATTTTCAGTAA TAGTTACAAA GCTATTCAAG TTGTCTGGTT 300
N 301
```

(2) INFORMATION FOR SEQ ID NO: 3923:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 299
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04648

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3923:

```
GATCTCAGTT GGATAGTTGT ACCTCAAAAA AGTAGGTGAG AACTGGCTTC CTCATTGTCC 60
CAGGATGTCA AATACTAATG ACATAAGAGC TCACTTACGT GCCAAAATTC ACTTTTATAC 120
TAGTTTTTCA GTGCTTTAAT ATTTGTAACCT NAAATTTNAA AACTCGTATT TACAAACACT 180
ACTGTAACCTN CAGTGAAACT GAATTGTGCG ATTGANGCTT TTTGCTTATC ATAGTATNTA 240
TTACACTACT TANTTCAGTA AATATATAAA NGTAGCCTNC AATTGANGTG TNTATTGAN 299
```

(2) INFORMATION FOR SEQ ID NO: 3924:
 (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 293
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04649

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3924:

```
GATCAGAAAG GTGAAATGTT TCGAATTTAA AATGTTTAAA GCATGTTTGG TTTTATTATT 60
TTTACATAAT TGTTTACCAC TAGTTTTTCC ACTAGCTTTT TATTATATAT GTTTAATTAT 120
GTAATTGTTA TTCACTAGCT TTTATTATAT AATTCCTTTT AAATAATACT ACTATTTCATC 180
AACTCTTGTT GCATAAGAAT TGCAGTTTTT TCTACCAAAC TTTTACTTCA TCTATGAGTC 240
GTGTTAGAAA TAGTCATTGA AAAAATATAC AGTAAAATAT CTAGCAAAAT AAA 293
```

(2) INFORMATION FOR SEQ ID NO: 3925:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 293
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04650

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3925:

```
GATCTGGTGA AGGCCTNCTG GCAGCATCTT CTCAGTAAGA CCTCATGTGG CAGAAGGAAA 60
GGGAGCTATC TGGAATCTCC CTTATAAGGG CCCNMNMGCC ATTCATAAGG GCTGCACCCT 120
CATGACCTAA TCACCTTCCA AAGGCGTCAC CTCCTGGTAC TGTCACCTTG GCGGTTACGA 180
TTTCATCATA TGAATTTTGG GACGGCATAT TCAGTCCACA CCAGGAAGTT CTTGCACNTC 240
ATAGTCGAAA GTCAGTTTTG TGGCTATAAA AATCTTGGTT CCATTTTCCG CTN 293
```

(2) INFORMATION FOR SEQ ID NO: 3926:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 292
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04651

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3926:

```
GATCCACCCG TCGTCGCCTC CCAAAGTGCT GGAATTACAG GCGTGACATG CATGCCCGGC 60
CAACATATAA TTATTATACA ACCCAGCCAC TGCACTCTTG GGCATTTATT CTAGAGAAAC 120
AAAACTTAT CCCCACTCAA AAGCATGTAC GTGAATGTTC TTAGCAGTTT ATTTTATAAT 180
GGTCAATATC TGGAAACAAT CCAAATGTCC TTCCATGAGT TAATGGTTAA AATAACTGTG 240
GTGCACCCAT ACCATGGAAT ACTGTTTCTG AATAAAATGG TATGAAATGA AA 292
```

(2) INFORMATION FOR SEQ ID NO: 3927:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 291
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single

- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS04652
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3927:

```
GATCCTATCT AAAAATATGT AGTTATTAAA CATTCTGTGG ATATTTGTNA ATAAGGTAGT 60
TNCTATGGTC CGAATATCTG GGCCTGCCCC CCCAAATNAT GCTGAAACCT AATCACCAGT 120
GTGATGGTAA TAGGAGGTGG GACTGAGCTC TGATGAATGA GATTAGTGCC CTTATAAATT 180
ATGACCAAAA GAGCTCTTCA CTCCTCTAC CATTGAGGA TACAGTGAGA AGCCTTCATC 240
TATGAACCAC AAAGTAGCCC TCATCAGACA CTGAATCAGC CAGTGCCTTG N 291
```

(2) INFORMATION FOR SEQ ID NO: 3928:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 290
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS04653
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3928:

```
GATCTCACAG AAGTTATTCA ATCTCTAGGT TGCTTTAGCA TCTACTTGTG TAGTGAGAAG 60
AGTTATTTAC TTATATTGTG CATGAGGCCG TTTAGATATG TTAAATGCAA AACAGAACTC 120
TTGCTAGCTA AACACAGTAG AACTTGAATT TTTTTTTTNA GAGGTTATTT AATANCAAAA 180
TCAGGTTATT TGTGACTTGG TTGAAGTAAA CGGTGTCTCA GATAAANTAA TTNGTTAAAA 240
GAGTTGCCCA NTTTTATGTCT TATANCTTNA ANCAANTANN TANTAATAAN 290
```

(2) INFORMATION FOR SEQ ID NO: 3929:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 287
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS04654
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3929:

```
GATCTGGGAT GTGAGTGTAT CAAATCTTAT CAAATCCATT GACAAATCAG TGGTGCTATA 60
CTGGAAATGG CTACTCCTTT GGATGAAGGA CCTCATTTCC CAGTTGCTTG GAACAAANGA 120
GAATTTACAT NNNNCTGTAA GAAGGGAGAG ACGGCAGTTG TTGGTAGACA CACAGNNAAG 180
GGTGCCCAAG AATAATTCTG TCTGGATTAA AGGTCCCAGG GAAGTGACGG NGCCATTTCT 240
GTACCAAGAG GTGAATATAA TTTGCATGTT NGNGTGCAGT AATTAAA 287
```

(2) INFORMATION FOR SEQ ID NO: 3930:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 290
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS04655

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3930:

```

GATCCCAAGA TGACTGGGGT GGGAGGTCTT GCTAGAATGG GAAGGGTCAT AGAAAGGGCC 60
TTGACATCAG TTCCTTTGTG TGTACTCACT GAAGCCTGCN TTGGTCCAGA GCGGAGGCTG 120
TGTGCCTGGG GGAGTTTTCC TCTATACATC TCTCCCAAC CCTAGGTTCC CTGTTCTTCC 180
TCCAGCTGCA CCAGAGCAAC CTCTCACTCC CCATGCCACG TTCCACAGTT GCCACCACCT 240
CTGTGGCATT GAAATGAGCA CCTCCATTAA AGTCTGAATC AGTGCAGAAA 290

```

(2) INFORMATION FOR SEQ ID NO: 3931:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      287
(B) TYPE:         nucleic acid
(C) STRANDNESS:   single
(D) TOPOLOGY:     linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04656

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3931:

```

GATCCTGAAG GGAAGGGGCA GGGATTTCTC CTTCTTCTTG GTCCTGGCTC CCAAGGGCTT 60
CTGTCTTCAT CTCTGCATGA GCTCTCCTTC CCAGAGACCA ACTCTTTTNN ATTTNATTTN 120
ATTTNATTTT TNAATTTATG TCTGGAGCCT GGCTACTCTG CATTTGGGNT TGGGGATGCT 180
GGGTGGGTGT GTGGTCCATG TTCAGCGTTC TAGCAACACG TGTGTGTGTG TGTGTGTAAA 240
GGCTATGCAG CCAAATACC ATCTGGCCAG ACGGGCCCAC CCACAAA 287

```

(2) INFORMATION FOR SEQ ID NO: 3932:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      286
(B) TYPE:         nucleic acid
(C) STRANDNESS:   single
(D) TOPOLOGY:     linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04657

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3932:

```

GATCACCTGT TCCTACAGTG ACAACTGGAC CTGGCCCGAA CCCCTGGCAT CTGGCAACAT 60
TATTACCTGT CGAAACAGAA GTAGAGATTT GAAATAGAGG ATGCCAGTTC CCATTTCCCTC 120
CTGCTGTCTG GAAGGAAGTC TGGCTTTCCA GCCCAACTCT AAGCTCATCT TTACATACAA 180
AATAAGGGTA TGTTTACATG GAAAGCAAAA ATAGAACCAT GGATTACAG AAGGTTCCAT 240
AGCAGCAAT ANCAGTGCTT ATGAAATAAA CATTTTAAAT ATTAAA 286

```

(2) INFORMATION FOR SEQ ID NO: 3933:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      283
(B) TYPE:         nucleic acid
(C) STRANDNESS:   single
(D) TOPOLOGY:     linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04658

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3933:

GATCTAATTG TGAAATCGTT CACCTTGTTA AACATCTAAG TAAGTCTGTA GTCGCTCTGC 60
 AACACAGCCAT TATATTATTT TACTCTAGAA GAAACTGTAG AGTAGTAATT CGTGCTAATG 120
 AGAAAAACAA AATACCATGT TCAAAACAGA TGTATTTGAA AACTTAATGA CATGGTTCCA 180
 AAAACTAGAG CATGTATGTA TGCTGTGCAT CATCTCAGCA GACCTAAAT ATCCCCAAGT 240
 TGTCCCTTTA CAGCCATCAA TATATTTNAC ACTCTGCGGC AAA 283

(2) INFORMATION FOR SEQ ID NO: 3934:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 283
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04659

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3934:

GATCTGAGTC CTAGGNNCGC CCTCATTAC TAGCAGTAAG AATTTAAGTG GTGCATGGCA 60
 CATAGCACTG TACTAGATTC TGCAGGGGCA CAAACATAGA GCCAAACACT CTCCTCTTTG 120
 GAGAATTTCA GACCCAGAAA AGGCCACGCA GTTCTAACTT TTGTCATCGG TTCCTTTTGC 180
 TAAAAGGCAA AGGGTATGTT CCTTGCCTAT TGTCCAACAT ACCCCTTCCA AGATTGTGAG 240
 AAGATGGGTA GCTGGGCATC ATTAAATATT GAATCAATTG AAA 283

(2) INFORMATION FOR SEQ ID NO: 3935:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 281
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04660

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3935:

GATCCACAGC TTGCAGGAGA AAGTCAGTGG CCCCAGACAC ACGTAACAGG GTGAGCACTG 60
 AAATAAGAGC ACGCTGGGGC GTCCACACCA AGGGACTACG CCCCAGTCTG CCCACCTATC 120
 TTTTCTCCAT CATTAACCCA GCGCTCTTTC TCCCTGGACT TCCAAGTACC AATGACCTTG 180
 GGGCTTCTTT GCAGTTTAAA GGGAAAATGC TCTACAAANT AATTTCACTN TCAAACANNT 240
 CAGCAGAAGA ATAAAATNTT TTTTCTGGNA TATCTAGTAA A 281

(2) INFORMATION FOR SEQ ID NO: 3936:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 280
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04661

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3936:

GATCCAATCA CATGGCAAAT GCCTCCTTTC ACAATAGAGC ATGGTGCTGT TTCCTCACTT 60
 GANCTGAAAC TTCATAGAAG ACCAGGTGAG ACCACAGAACT ACTAGATGNN AATGTTTCATG 120
 TAGGTAAGCT TTATATTTCC TTCCAAGCTC CATTGCTACA AAGGTGTAAA TAAAATACAT 180

TTTTATGAGT TGAAGTAACT TCATGGTAGA AAATAATAAC TCTGCCTTCA AAAGCAAATA 240
 ATGGTTTCTT TGTTAAACAA TAAAGCATAA GANAATGAAA 280

(2) INFORMATION FOR SEQ ID NO: 3937:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 278
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04662

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3937:

GATCTTTTAAA TTTTGTGCCT TAGTTAAGTT CTGTATTTAG TGAATTAATT GCATCCTAAA 60
 AAGTCAAAC TGAAGAGCAC ATTTTAAATG GCAAATCTAT TTTTACATG TTTGTGAAGT 120
 TTTTATTTTT TAGTAAACAG ACCATCAGAA GAGAACAATG GTACAGAGCA GGGGTCAGCA 180
 GATGGATTTT GTANNGCATC AACTTGTAAG TATTTTCAAG TTTATTAGCT GTATGGCTCT 240
 GGTTCCTGTT CCCTGTTCCA AATGTTAAAG TCTACTGN 278

(2) INFORMATION FOR SEQ ID NO: 3938:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 301
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04663

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3938:

GATCGACATT TAAAAAATGA GGTGAAAGAA AGCTATAGTG GCATAGAAAA AGTATAAAGC 60
 TCAGTTAGTT TTTTATTAT TATTATTATT AAAAGTTAAT TCAGGACTGA TGTGACCTAC 120
 CAGATTTT CAG AACATGTGTT AATAGTATAT ATGCCACTGA AAACCTTAGGT CCTGTATCAT 180
 ACTTTTNTCT TTAAGACTTT TTAAGAAATA TTAAGTAAAC ATGTGGCTTG CTCAGTGTCT 240
 AATTGCAAGT TTTCAATCTT GGACTTTGAA AACAGGATTA AACGTTAGTA TTCGTGTGAA 300
 A 301

(2) INFORMATION FOR SEQ ID NO: 3939:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 276
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04664

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3939:

GATCTCCCTT TTACAGATAT CAGAAAGCAT GAAAAAATA GAATTGGATT TAATGCTTTG 60
 CAGATATTCT GTTTTTTTT CCAATTATTT GATTTACCT ATATACATAT TCTTTNNTCT 120
 TTTTCCTAGC TTTAGAAGCA AACCAACAAA AGCAGTTTGG ACTTTAGTAA CTTTTTTT 180
 CAGCAGCATT TAGAACAGTT TGCATGTTCT GAGGAATATT ATATGTGTGT TGGGGGAAA 240
 GGAATTCACA CTGAATAAAT TTTAGAAATA ATTAAA 276

(2) INFORMATION FOR SEQ ID NO: 3940:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 277
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04665

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3940:

```
GATCTTACTG CAAAGGAAAC TGACAGAAGA AAAAGAAAGT GCTTTTGAAT TTNTTTCCTC 60
TGCCTGACTA GACAATGATG TTAATAATG CTTCAAAGCT GAAGAATCTA AATGTCGTCT 120
TTGACTCAAG TACCAAATAA TAATAATGCT ATACTTAAAT TACTTGTGAA AAACAACACA 180
TTTTAAAGAT TACGTGCTTC TTGGTACAGG TTTGTGAATG ACAGTTTATC GTCATGCTGT 240
TAGTGTGCAT TCTAAATAAA TATATATTCA AATGAAA 277
```

(2) INFORMATION FOR SEQ ID NO: 3941:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 279
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04666

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3941:

```
GATCCTAAGC CATAGACAGG CTAATTGCC ACCACTCCCA GGAATATTGA AATAGCTACA 60
TGACCATAAT GTGTTTAAAA TGTGGTATGC TCTTGAGATA TTTAAAGTTT TGGCAGTAAA 120
ATACTCTGTT TTTAAGTATG AATGTATTTT ATTCATATTT CCTCTCACAA AGGAAAATGA 180
CTTCAGTATA GATTTGTTTT TATTAAAATG CATTTTTTAT TCTTAAGTGG TAGGAAGCAA 240
CATCCAAAAN TGCTTAATAA AATGCTTTTA AGCTGCAAA 279
```

(2) INFORMATION FOR SEQ ID NO: 3942:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 273
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04667

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3942:

```
GATCAACTGG CTTTTCTCTA TTATGACTTT AGATGAATCG TTTTAATAGA TTTGCTAATG 60
TTAAGACATC TCTGCATTTT TACAAGAATC TGATGTAGTC ATAGTATACT ATTCTTTTAA 120
TATACATCTC CTTTCAATGT TAACAGTGGT TATTTATGAT TGGTTGGTCC ATAGTAGATT 180
TTTATTTTGT GTTTCTTATC TGNACTTTCT GATTTTCCTA CAAAGATNNG NGNNNTACTT 240
GTATAATAAA AATAAGAGCT TTAAATNGTG AAA 273
```

(2) INFORMATION FOR SEQ ID NO: 3943:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 268
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04668
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3943:

```
GATCGCGTCC AGATGGAAAA CGGAAGCAGA GGCTTCTAAT CGTCGCATTT ACTGGCTCCA 60
GTGCAACACA TCCATCTGAA AACACTCGGA AGTCTGGTGC TTGGAGAGGG TGCCATTGTC 120
TCTTGTACAT AAGGTCATGA CGTGTCTATG TCAAAAGTTC TTATATATTT CTTTATAAG 180
CTGAAAGAAG GTCTATTTTT ATGTTTTTAG GTCTATGAAT GGAACGTTGT AAATGCTTGT 240
CAAACAATAA AAATAACGAA AAGTGAAA 268
```

(2) INFORMATION FOR SEQ ID NO: 3944:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 268
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04669
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3944:

```
GATCTNGTGC CTGGAAATAG CCTGAGGTGG CTCAGGAAGC GGAGAAAGGG TGCCAGACCA 60
TTCTCTGGCG GGGACCAGGG CCCAAGGCC CAGGGCTGGA AGNAGACCAA GGGGCGACCG 120
CCCTGGAGGG ACATCAGTGC TTCCTCTTCC ACCCAATTCC CCCACGCGGT TCCATGTTTT 180
CCCACCAGCC TGTTGGCGAA GTTGCTGCTC CGGCATTGAG TACCTNNTNN NNCCAGAGAA 240
ATANNNGAG TTTCTATTTT ATGTTAAA 268
```

(2) INFORMATION FOR SEQ ID NO: 3945:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 267
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04670
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3945:

```
GATCAGATGG TTTAAGGCTA CAACACGAGG CCAATATCTG TATGTNAAGG AGACAGAAAC 60
ATCAATGTTT GGAGTATATA TTGACCTTCA TTCTTACTTT CTCCTTATTC TCTTATGTAA 120
CTGTTAATTT TTCCCTTCCT TGGCTCTATG TATTTAATTA TAATAAGCTT TACCTACAAG 180
CAAAACAAAC CAAACATGAA CAATGAAAAC TACTTTTGGT CATGTAGCAG AAACAGCAGT 240
CAATAAAGGA GAGAATGAAA CTAGAAA 267
```

(2) INFORMATION FOR SEQ ID NO: 3946:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 266
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single

- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS04671
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3946:

```
GATCCTGTGA AAGCTGATGC CCATGTGCCC TGAGAGCTGC CTCTCAATCC CTGTCCCAAG 60
CCACAGCTAT GGCCTTAATG TCACCAAGTGT TCTCACCCTC TAGGCCCTGT GCCTGGAGGT 120
GCCTCCACAG CCGACCAGCA GCCACCCCGC CTGCTTCATC CACATCAGGA GGGTCCGGTG 180
AGGCTGCAGC AGTGGTTAAG GAGTAACACC TTCTTGTATT AAGGAATTTT AACTAAATA 240
AAATGTATGT TGGAGATACT GTTAAA 266
```

(2) INFORMATION FOR SEQ ID NO: 3947:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 265
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS04672
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3947:

```
GATCCCTAGG TCTTGGGAGC TCTTGGAGGT GTCTGTATCA GTGGATTTCC CATCCCCTGT 60
GGGAAATTAG TAGGCTCATT TACTGTTTTA GGTCTAGCCT ATGTGGATTT TNNCCTAACA 120
TACCTAAGCA AACCCAGTGT CAGGATGGTA ATTCTNATTC TTTCGTNCAG TTAAGTTTTT 180
CCCTTCANCT GGGCACTGAA GGGNTATGTG AAACAATGTT NAACATTTTT GGTAGTCTTC 240
AACCAGGGGT TTTTTCGGTT TAACN 265
```

(2) INFORMATION FOR SEQ ID NO: 3948:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 265
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS04673
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3948:

```
GATCTAGNAA ATGCATATAT TTAGCGGGTA TTTGAAAGAT AGAAGCATT TTTATAACTG 60
AAGAGTATAA CACTTATCTN CTTAAGTAAA TGCTCTCATA ACTTGTATAC ATTTTNCAG 120
GTACAAATTC AAAAGTATGT AAGCATTGTA TAATGTGACA ATTGTATAAT TTATGTAATC 180
TGATGCATGA NTCAGAATTT TTATATAATA TATGATTATN GACTTATAGT TGATTAANGT 240
GTTTAANCTT AAAANANAAN ANNNN 265
```

(2) INFORMATION FOR SEQ ID NO: 3949:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 263
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS04674

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3949:

```

GATCTCTAAA CTAGCTCTTT TGTTAGTATC GTCTCACAAA CTGATTATTT TCCTCTTTCT 60
TTGGTAAGGT CAATAACTGG GAGATGGACA AACTAGAGAT GGAAGATGCA GTCACATTTT 120
TGAAGACTAA AATCTATTCA GTAGAAGCTC TTCCTGTTGC TGCTGTAAAT GTGCAAAGCA 180
CACAATAAAG TGAAAATCAA CCTTTTCATA TTAGGAGACA TGCATTTGTA AAAATTAATA 240
AAGATGACAA GTCAGTTNTC AAA                                     263

```

(2) INFORMATION FOR SEQ ID NO: 3950:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      261
(B) TYPE:         nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04675

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3950:

```

GATCCACACA CTACAGGAAA CAGTTGGCTT TGGAAATCCA TCTTTCTGAT ACCCCTCCAG 60
CTGAACAATT TTCTGCATGG GACTCTGAGT TCCTTTCTCT CCCAGAGAGT TTTACCGTAT 120
GAAGCCTGGA GCTGGAGAAC GAAAGAATCT TCACTATAAA CAGAGACCCA TTCATTTATT 180
TCCATTGGCT GTGTTACTGG ATGTTTTACT GGTGACGAG AAAGTGGGTC ACAATAAAAA 240
AATGGAGATA TGAAACTCAA A                                     261

```

(2) INFORMATION FOR SEQ ID NO: 3951:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      315
(B) TYPE:         nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04676

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3951:

```

GATCTGTTTG TAATACAAGG TATTTGGNCT TGTCTTTAAC TGTATAGTGA TTTGTGGGCA 60
GGCTGCAGGA GCCAGGATAA AGAATGCATG TTTGAAATCT NCTCTATACA AATGCATCCA 120
CACTCTCCNG CAAAGGGATG AGTTTCTTAG CCGTTTTTAC TTGATACAAA TGCTATTGTT 180
TCCTTTGGAN GGNGTGAAAA ANTGNANGCT CCACCTGCTC CGTGAGTAGC ATTGCTCTCA 240
ACTGGTGTTT CCAGCCGTTT ACATGTCTAC CCATTCTCTC CCTTANGGTT TTCTTAGGGN 300
GCNGGNGGNT GNNTN                                     315

```

(2) INFORMATION FOR SEQ ID NO: 3952:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      258
(B) TYPE:         nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04677

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3952:

```

GATCTAAACT TGATATGTTA AATTTAAATT TAATTTCCCC AAGTGTGAGT ACTATATGTN 60
ATTGTAGATA ATTTGCAAAC TACAAAAAAT AAAAATAATT GGCTGGGCGT GGTGGCTCAT 120
GCCTGTAATC CCGGCGCTTT GGGAGGCCGA GGTNGGTGGA CCACCTGGGG TCAGGAGTTC 180
AGGACCGGCC TGGCCAACAT GGTGAAACCC GTCTCTGCTA AAGGTATAGA AGCTNGCCGG 240
GTGTGGTGGT GGGCACCN                                     258

```

(2) INFORMATION FOR SEQ ID NO: 3953:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 258
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04678

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3953:

```

GATCCTCACT CAACGAAAAC TCGNTTGGAA ACTGTTCCGN CTGGCAGTCC TTTTTGTTG 60
TTTTCCATCT CATTTCCCTT CCATCTGAAA GTGGCATTCA GCTGACTNGC TCATTTAGAC 120
NGTTCACGGA GTCTGAATCT GCCAACGTGG TGTGGAGGC TCCACCTTGA AAAGGGCCAC 180
AGTCAGGGCA ACTTTCCCA TACAGGAAAA CTTGAAAATT ACATCAACAG TCTACGTCAC 240
AGCCAAATTA TATTTCCN                                     258

```

(2) INFORMATION FOR SEQ ID NO: 3954:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 257
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04679

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3954:

```

GATCCAGTGG CTGCAGCTTC AATCCAGTG CTGNANTCAC ACATCCATTC TGCCCTGGGG 60
GACCCTGGAG CCTACTTGTG CGCTTTGCAT TTCATTGATT GACGNCTCCC TTCAACAAGC 120
ATTTACTGNG CGCCTACTAT GTACTAATGC TAGANGTTAG ATGTACAAAG AAGACAGTTT 180
TCATCCTCTA GGNACTCATA GGCTAATGGT GAGACACACA GACANACATC ATTATATTAN 240
AATANGCTAA GNGAAAA                                     257

```

(2) INFORMATION FOR SEQ ID NO: 3955:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 257
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04680

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3955:

```

GATCTACAAG GCCACACAGA TAATTNCAAA TACATCTCAT TTCCTTCTGA TTCAGGCCTC 60
GGNAGACCCC AAGGGGAAGG AGTTCTCATG GGNACTATA ATCNATGAAG CTGAAGTTGN 120

```

AATATAGANG GCAGATTTAA AGTTACCATT TTTTTTTAAA CACCAGCTAT GGTCCCTTCA 180
 AAATTGTACA AGCTGTCAGT ATCACCTGCA CATGAGCAAT TTAGTCTNNN GGNGGNGTGA 240
 GAAGTTTAGG TCTTTNN 257

(2) INFORMATION FOR SEQ ID NO: 3956:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 256
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04681

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3956:

GATCTGCCCC CCTCGGCCTC CCAAAGTGCT GGGATTACAG GCGTGAGCAT GAGTGCCAG 60
 GCAGAGAAGT CCTACACCAC GTGTCAAAC CGGAACACAA AGGGNCACTG TCTTATTGCT 120
 TGGTACAGTA CTCCTGTTTG TTGAGAGCCC ATTTACTAGA GCAGCTCTGT TTGTGCTTAA 180
 TGAAAGCTCT TTTCTGAGAG GCAACAGAGT GTGTTCTATC ATAAATGAAG CGCTCTTCAA 240
 GAACCTCCTG AGCAAA 256

(2) INFORMATION FOR SEQ ID NO: 3957:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 254
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04682

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3957:

GATCCACCGT CGGATTCCGT CTGCAGAGGA GGACGTAGGG GGCCGTCACA CCCACCAGGC 60
 CTCCCTGCTG TGCTTTAACA CAGGCAGAAG AGGTTTCATGG CAATATAATA GTCAATGAAC 120
 TTTCAAGTTTA AATTGTGTAC ATTTTAAAT TGTAAGATTT TTAAGTGTATA TTGATGCATA 180
 GTGTGATTCA ATAAATTGCT TGTAATTTAA AACTATTTA ATATTCAAAA TAAATATAGT 240
 TATATATTTA TAAA 254

(2) INFORMATION FOR SEQ ID NO: 3958:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 252
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04683

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3958:

GATCTGTTTT AAAGTTGGGG GGTGGGAAAT TTAGCTGACT AGGGACAAAC ATGTAAACCT 60
 ATTTTCCTAT GAAAAAATT TTAAATGTCC CACTTGAATA ACGTAATTCT TCATAGTTTT 120
 TTTAATCTAT GGATAAATGG AAACCTAATT ATTTGTAATG AATTATTTAG ACAGTTCTAA 180
 GCCCTGTCTT CTGGGAGTTA TCANTNTTAA AGAGANCTTT TGTGCAATTT CAAATGAAGT 240
 TTTTATAAGT AN 252

(2) INFORMATION FOR SEQ ID NO: 3959:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 251
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04684

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3959:

```
GATCCGGAGT CTTTGAGGCC ATTNTTGAAC TACTAATTCA ACTAATCCTG AACCACCATA 60
TTTTCATATT CATCCATGAA GTGTTAAGTG TTCTTATGAT TTAAACCACT TAGCATTGGT 120
TTTTATATTT CTTGCAGCCA AAATCTTCCT AACAGTAAAA TAAAGTTTCA AGTTTCATAA 180
GTGCCAATGA TTTTAAATG TTAATAAATT TGTACTAAAT AAAAATGGCA ACAGGAGCAG 240
GTAAACCTAA A 251
```

(2) INFORMATION FOR SEQ ID NO: 3960:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 251
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04685

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3960:

```
GATCTTCTAA CTTATAAATG TCAAATATAT TTTTGTATTA GATTGTGCCT ATNATGAGAG 60
AAATCTTTAA TGTATATTIN ATGTATGCTG AACACATTTT TATAATTTGN CACACTTGGA 120
GGCATGGTCT AGTAATAATA ATGTAATATG TACCTTGCTG GTTANTATAA CTAAGATTTT 180
GCCTTTATTG GGTTAGGTAT CTNTTNTTTA TTNTNGCACC NGNTAGCTGN CTTCTACTGA 240
GTAAAGANTT N 251
```

(2) INFORMATION FOR SEQ ID NO: 3961:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 251
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04686

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3961:

```
GATCCAACCTT CAAAGTAAAA GTTGGAAGG GCAAGAGTCT TTTAAGCGGA ACTTCAATTC 60
TNTTNNCATG GTTACTTATA TATAATGAAT ATAAATAGAC AAATAGGACT TGGAAAATGT 120
GGTATATTCT AAGTCAAGAT GCTATGAAGT TGTTATAGTT TAAGGGNCAT TCTTAAGAAG 180
GAATTACTTA AGTNCATTAC TCTNCTCATT TCAAGGACAT GAAAAAGTAA AGGATGGTCT 240
GGCACTATTT N 251
```

(2) INFORMATION FOR SEQ ID NO: 3962:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 250
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS04687
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3962:

```
GATCCTGGAG ACGCCATTTC CGAGATTGTT CTGCATATTC ATTTGCACAT TGTTGTCTGG 60
GTTGGACATG CGTGTGGGCT TCAGTGTGAG GCTTTTAATA TGTATATCCT GTTATCAATA 120
AAACAATTAT CCAAGTGGTT GAATCCTGTG AGACTTGGCA AGTGTGTGCA AATNAAGTAT 180
ACTTGACTTT TCAACCTCTT CTTTCAATGT NGCNNTTATA TGANATAAAG TAATCCATTT 240
ANCAGTTAAA 250
```

(2) INFORMATION FOR SEQ ID NO: 3963:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 245
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS04688
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3963:

```
GATCGACATG AGATACAGAC GAGAGATTAT GTCTCTTATG GCTTTATCAT CAATTAAACT 60
TAGCAAAGTC TGTAAATTTT ATTTTCAGAGT CTCCCAGCTG TGAAAAGTAG AGTTCCACTT 120
ATGTCATCCA TATCTGCACA GTAATCTTTT TTTTAATCCT AAACCTTCTT AACAGGTTTC 180
TNCTCCTNAT TCTAGACAAT AATGCTATGT GTTTTCCTTG AATACCATGA TTTTAAACTN 240
TTAAA 245
```

(2) INFORMATION FOR SEQ ID NO: 3964:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 245
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS04689
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3964:

```
GATCGGTCAT GCTGGGGCCA AAAACATGGC AAGAAACGTC CCACTGTCAA CCTCCCGGGC 60
AAGCGTGTGC ACCTGCAGCT CAGGGCCAGC CCACCACACT GCCTTAGTGA CACTGCAGCC 120
GGGGGAGCCA CAGGCCGCCA GCAGGCTGAG GAACAATGCC GTGTGACCTT TCCNNCNNNN 180
AAAAAACAAA AACTGCAATT TTTATTCAAA TAAAAAAGG GTAAAAATAA AAGTTAATAA 240
GGAAA 245
```

(2) INFORMATION FOR SEQ ID NO: 3965:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 244
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single

(D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04690
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3965:
 GATCATGGAA AGTTTCAGTG AAAACCATCA TGCTGTCTTC CAGAACCCAG TTCTCCTCTG 60
 AGGAGGATGA ATGAAGGTTG GGTTCAGTC ATCATGCCTG CCCTTTTTTT CTTTGTATTG 120
 TTTCTTAAGC ATCTCAGAGT CCTCTCATGG AATTGGTTT CTATTTCCCC TCCAATCTC 180
 CACCTCACTC CATATCATAA GACATGTCTG CATTCTGGAA TATTAAACGT GGACATGGCT 240
 CAAA 244

(2) INFORMATION FOR SEQ ID NO: 3966:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 244
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04691
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3966:
 GATCATGCTT TTCCCTACTA AACTTCTGTA ACTGCATGTA TGATACATTA TTGCAGAGGT 60
 AAGAGATAGT TTAATGGATT TTTAAAAACA AATTACTATA ATTNATCTGA TGTTCTCTAG 120
 TTGCATTTTG CTGAAATGTA GTGCTGTTCT AAATTCTGTA AATTGATTGC TGTTGAATTA 180
 TCTTTCTGTT GAGAAGAGTC TATTCATGCA TCCTGACCTT AATAAATACT ATGTTCA GTT 240
 TAAA 244

(2) INFORMATION FOR SEQ ID NO: 3967:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 242
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04692
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3967:
 GATCCAAGCC CTTGTTCAGA TTTGGTGCCT GATAAGACAG GGGTTTCTCT TTTTGTGACC 60
 TTTATTATTA TTATTTTGTT AACTGTTGTA ACCAGTTAGC TGTTGTGTTT TAAGATAGAA 120
 AGGAACAAGA CTAAATTGT AAATACTTTG TAAACATCAG CATTTGTA CT TGAATAGTAG 180
 GATTTTAAAG GGCATTGATA GCATACCAAA CAAAAGGCAA AATAAAGTGA CCTTTTATA 240
 AA 242

(2) INFORMATION FOR SEQ ID NO: 3968:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 241
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04693

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3968:

GATCTTCCTC CCATGAAAGA AAAANCAAGA ACCAGAGGCG TAGACTNACT NAAGACACAA 60
 CTCCTGGCTT TCTNAAGCTA TGGACTTGGA TTGGATTGCT GGGGGTTTTT AGAGAAAGGT 120
 GACAAATTTT AGTACCTCTG GCATGCTGTC CCAGGAAACT AGGGCTCCCA CTAAGTTATG 180
 AGGTTTTTAA ACACATTGAA AATGACATGA CACCTAAAAT AAATTTGGAT TTGCTCATAA 240
 A 241

(2) INFORMATION FOR SEQ ID NO: 3969:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 240
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04694

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3969:

GATCAAGGGT AAGAATAAGT ATCCACCTCT TTCCTTTTAA AAATTTTCCC TCAGAGTCCC 60
 TATGTTGCAT ATTTNATTCT GTTCAGAATC TAACCTTTCC CTAAGGCTTA TCTTTCTAAC 120
 AGATACTAAT TATGAATGGG CATCAACAAC TCTAATTAAA CCATTCTTTA AAAGTCTCT 180
 GGGTGTTTTT ACAAAAGAAA TTCTCCCATG TTATGATGTG TGTGGTTGCT AAAAAGTAAA 240

(2) INFORMATION FOR SEQ ID NO: 3970:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 238
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04695

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3970:

GATCCAGACT GGCCAGATTT GAACTCCAGC ACTATTCCTT GATACCTCTG AAAGTTGGGA 60
 CAAGTAACTT AGTCACTATG TATGAAAAGA GATAATAATA CTAGTACCTT CCTCATACTA 120
 CAAGACTACA AGATGTGGTC AAGACCAGAA ATATATAAGC ACTGTAAAAA CAATGTAAAA 180
 CCAAATGNAA ATTCTTCATT TGTATCTNCC AAAAATAAAA AAATAGCTAT TTGGGAAA 238

(2) INFORMATION FOR SEQ ID NO: 3971:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 238
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04696

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3971:

GATCAACCAG AAAAAAAAAA TATNATGAAA TGGATACACA CAGTGGACAC CTGTGAAGTT 60
 ATCTTAGCTC CCCCAAACT GAGANGTACA AATTAGTCTC CAAACCTAAT TACCAGTTTA 120

CAGGAAACAT NGGGAATAAA AGANCAANTT AACACACAA AGAAGCAAAC ANCCAANTGC 180
 ACAGTTTGGG AAATTGTGCA GAGGTAATGG CCTAGTTTTT TANCCAGTAC ATGTCAA 238

(2) INFORMATION FOR SEQ ID NO: 3972:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 237
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04697

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3972:

GATCATAAAT GACAGGTGTG TGGAGGTCAT TGCAAAGGAA GGACAAAACC TGAAAGAGCT 60
 ATATTNGGTG TCCTGTAAAA TCACAGATTA TGGTAGGTAA TGANCCATTT NCCTAATCCT 120
 TTCTAAGANT AAAANGTTAC AAAATCATTG AAAGTNCTTA AAAGGAAATC AAGANCTATA 180
 TCATAGAGAC TGTCTATCGT CACTTATGCT CATNGTGACC NTACCAAANA NTAAAN 237

(2) INFORMATION FOR SEQ ID NO: 3973:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 236
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04698

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3973:

GATCGTAGAA GCCAAATGAA ATGTGACATA TCTACTGACT GATGACAAGG GAATTTTCATT 60
 AGGAAGAAGG TAAAGAAACA TCGTTGAGTA GCCTACCTTG ATTTCTGTCA AGTTCATAAC 120
 CAGCTTCATN CTTTTAAAGG CTTGAGGTTT GAAATTAAGT CAACTGCATG CAGCTTTGCT 180
 GATAAATGAA TAATTCTCTT TGATGCCATT TATGAGAAAA GACTTCAATA TCTGTN 236

(2) INFORMATION FOR SEQ ID NO: 3974:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 173
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04699

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3974:

GATCTTCCAG TTTAGGAGCA ATTTGGTGAA AGGAGTCGGG TGACCAGAGC TGGAATAACC 60
 GTCTGCATGG CTGCACTCTG GTANCAGAGT GGNGACAGAN GTAAGGATAG TGTGGAGGGC 120
 ACAGTTGCAA GTTGAGTCTT TCCATGAGAC AATGTGCCAA AGTTAAAAAA AAN 173

(2) INFORMATION FOR SEQ ID NO: 3975:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 234
- (B) TYPE: nucleic acid

- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS04700
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3975:

```
GATCCCTAAA TAAGTAGTTA TTCTGTTTTT CCTGATTTT AACTTTTACT AATAGAATGA 60
GAGTAAATAT TTTTGGGTAT GTGGCTTCTT TTGTTCAACA TTGTTTAAAG ATTCATCCGT 120
GTTGCTTG TG TAGCTGTAAT TTGTTTAAAT CTTTATAGTA CATTCAAGTTT TGTNAATGCT 180
TATTGTAGGA CTGTACCATA ATACAGGCAG CATGCTGCTG ATAAACACTG GAAA 234
```

(2) INFORMATION FOR SEQ ID NO: 3976:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 234
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS04701
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3976:

```
GATCCTCCTG CCTCGGTCTC CCAAAGTNCT GGGATTGCAG GTCTTGGTCT TGATNCCAAG 60
TTTGGGAAAG NAGCTAAGAA GACATCCAC TAGGAAGAGA GAGACTACCT CCACATCAAA 120
AATATTTAAG TNATTATCTC AAACAGTGAC ATCTCTTGGG AAAATGGACT TAATAGGAAT 180
ATGGGACTGA GTTCCAGTCT TTTTNAATAA AATAAAATCA AGCAANATCA TAAA 234
```

(2) INFORMATION FOR SEQ ID NO: 3977:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 234
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS04702
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3977:

```
GATCAACCCC GTGAAGGTGG CCAACCTGGT GAAGGCGTAC GTGGACAAGT ACAGGCACAT 60
ANCNCAGGCA CANGAAACCA GAGGCCGGGG AGGAGCCGCC CACGCAGGGG GCCGAGGGCT 120
GAGGCCAGGC AATCACGGGC TATGCCNGGG AGCTGTCTGGG AGTGGCGGGA ATCGGGGCCA 180
TGCCCCGGGA GCTGTCTGGG GTNGCGGGAA TNGGGGCCAT GCCCGGNGGA GCTN 234
```

(2) INFORMATION FOR SEQ ID NO: 3978:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 231
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS04703
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3978:

```

GATCATCGCA TTGAAATGGT TTTGGGAAGT ATGGAAAATT AAATGGATT TTTGAGACACT 60
AGTTTATTGG CTATGCAAGT GACAGTTTTG AAAAAGGCTG AATCTTATTG TTGGAGCCTA 120
ATGTAAATGC ATATATAAAT TCTGACTGTA TTTCAGTCAG TGTTTTCTTG GAAAAATTCC 180
CAGATTGGAA GCAGAAAGTA CAGACCAAAT AAAGATTATT CACCCACCAA A 231

```

(2) INFORMATION FOR SEQ ID NO: 3979:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 231
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04704

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3979:

```

GATCGCTCTC ACTGGCCTGC TGCAGATNAG CCAGGGGGAG CCTAGGCCCA GCTCCTCCGC 60
GGTTGGCCCC CCAGACCATA CCTCTGACCC ACCCAGCCCC CNNTGGTAGC CCCAGCAGTT 120
CTCAGGGTGC TGACCTCTCT CTCCCACAGA CCCCAGACAC CCATTGTCCA TAGCCTTCTN 180
AGGGCAGAGT GGGCTGGTTG TGTGACAAT AAAACAGTGT TGGTTTGCAA A 231

```

(2) INFORMATION FOR SEQ ID NO: 3980:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 242
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04705

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3980:

```

GATCAAGTCT TGTCAAGTTC TGCCCTCTTT CCCCATGTTT CCTGGGAAGA CGGGTGGTGG 60
CAGAGTGAGA AGGCCACTGG TTCTGTGCCG CAGCACGCAA AATTTAGAAT TCTACAGACT 120
AGCTCTATAC GTAGTGAGGA CCCAGATTTA GAGAACTGA CCAATATTTA TCTCCGCATT 180
TGTGTGTGTG TCCAACCTCTG TAGGNCAATA AACCANCAAG ACAAATGAAC TGTGCTTCCA 240
AA 242

```

(2) INFORMATION FOR SEQ ID NO: 3981:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 230
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04706

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3981:

```

GATCCACCTC TACACCAGCC CAGGAAGCCC CATCTGTGCC TGCCCTCAGG TGGTCCACCA 60
GTCTCCCCCT TTGGTTCCT TCCAGTCTNT TCCCCCTTTC TATCCCAATN ACCAATAGAA 120
ATGCTAACAT CCCTGCCTGG TAGCCAGACT AGCCCACTAA AGCTCCCCTG TAAATGGGGG 180
CTCCATTAGT TCTGCTGCCG AGACTAATAA ACGATTGGT TGGCTCTAAA 230

```

(2) INFORMATION FOR SEQ ID NO: 3982:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 229
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04707

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3982:

```
GATCTATTCC CACATGANGT GCGCCACCGA CACGNAGAAC GTCAAATTTT TTTTCGACGC 60
TGTCACCGAC ATCATCATCA AGGAGAACCT CAAAGACTGT GGCTCTTNT NAGGCAGGGC 120
CTGTNCTGCA GTCGGGGACA AGGAGCTTCC NTTTGGCAAG GCCGGGGCAC AATTGCACT 180
CCCCTCAGCT AGACGCACAG ACTCAGCAAT AAACCTTTGC ATCAGGAAA 229
```

(2) INFORMATION FOR SEQ ID NO: 3983:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 226
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04708

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3983:

```
GATCCTCCCT GCCCAAGTCT TACTTCGTGA GCTGGCCTTG CTCCCCATCC CCCAAGTGCC 60
TCACCAGTCC CCCAGACTGG GTGAAGGTAC AGCTGGCTCC TTTCGGGGGT GCAGCTCAA 120
CTCTCTCGGC GGTAGGGCGG TGCCATCCCC ACCCATAGGG CTGGCTCACA TCCAGTCACT 180
CCCAACAGCG TCCANCACAC AAATAAAAGA CCCTTTGGCC CTGAAA 226
```

(2) INFORMATION FOR SEQ ID NO: 3984:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 226
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04709

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3984:

```
GATCACTTGN GGTCAAGNCGT NCGAGACCAN TCTGGTCAAC ATGGCAAAAC CCCGTCTCTG 60
CTAAAAATGC AAAAATCAGC TGGGTGTAGT GGTGCGTNCC TGTAATCCCA GCTACTGGGA 120
GCTGAGGCGA AAGAATTGCT TGAACCTGGA AGGTGGTAGG CTGCAGTNAG CCAGGATTGT 180
GCCACTTCAC TCCAGCCCGG GCAACAGNGC AAGACTCTGT GTCAA 226
```

(2) INFORMATION FOR SEQ ID NO: 3985:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 225
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single

(D) TOPOLOGY: linear
(vii) IMMEDIATE SOURCE:
(B) CLONE: HUMGS04710
(ix) FEATURE:
(D) OTHER INFORMATION: "N"=unidentified base
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3985:
GATCCTGGGC CAAACTGATT TACTATTTTA AATTTNAGTT TTAATGNGAC AGGGCCTTGC 60
TATGTTGCAG GGTGGTGTG AACTCCTGGC CTCAAGCAAT CCTCTTGCCT CAGCTTGCCA 120
AAATGCTGGC ATTACAGGCC TGAGCCACTG CCCCTGGTCT GATTTACAAT TTTNAATTGA 180
GGTTAGGGA GTCATAATAC CANCAAAGAT GGTAAAAGGA ATTTN 225

(2) INFORMATION FOR SEQ ID NO: 3986:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 221
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear
(vii) IMMEDIATE SOURCE:
(B) CLONE: HUMGS04711
(ix) FEATURE:
(D) OTHER INFORMATION: "N"=unidentified base
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3986:
GATCATCTC TAAACATTTT ATCATTTATT AATCCTCCCT GCCTGTGTCT ATTATTATAT 60
TCATATCTCT ACGCTGCAAA ATTTGGGTCT CAATTTTAC TGTGCCTTTG TTTTACTAG 120
TGTCTGCTGT TGCAAAAAGA AGAAAACATT CTCTGCCTGA GTTTTAATTT TTGTCCAAAG 180
TTAATTTTAA TCTATACAAT TAAAACCTTT TGCCTATCAA A 221

(2) INFORMATION FOR SEQ ID NO: 3987:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 221
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear
(vii) IMMEDIATE SOURCE:
(B) CLONE: HUMGS04712
(ix) FEATURE:
(D) OTHER INFORMATION: "N"=unidentified base
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3987:
GATCATCATC TGTGAAGCAT CATGGTAGCT TCCAAGCATT TGCGGCCCCAC TGGCCAGNTG 60
CATCCAAAAC ACATTCAGGA AACCCGAGAG TTGTAAGTTG CACATGTGTG GCCTACAGTG 120
ACTTCCATGT AGTAACAGGG NTGNGCAAGG CANGNTCTCC ACCAGACTTA AAGCATTCAA 180
CCACTCTGCC CCCAGGGCGA CACTGGNCAT GTGGTTCAAT N 221

(2) INFORMATION FOR SEQ ID NO: 3988:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 220
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear
(vii) IMMEDIATE SOURCE:
(B) CLONE: HUMGS04713
(ix) FEATURE:
(D) OTHER INFORMATION: "N"=unidentified base
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3988:

GATCTTTTTTA AGATNNNAAT AAAGAGCTTT CCTAAATAAA ATAAGCAATA TTAACTTTA 60
 GAAACTGTAC TCTATGAAAC GTGTTTTATG AAANCATCTN TTACAAAAG TGCTTACTTA 120
 ACTCAGCAAG AAAGGTTTAA TGTACACATT TNACANCTAA ANTCAAACC TACAAGAAAC 180
 TGCCTGCCT TCACTATTTA CAAATCGGCC TACAAGGAAA 220

(2) INFORMATION FOR SEQ ID NO: 3989:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 218
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04714

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3989:

GATCTGGCTA TCTCATTGAT TATATTTTTC TTCCCTTATA CTGCAAAGTA CATCATAGGT 60
 ATAATTTTAT TTTGAGAAAG AACTATATTC CAATTTTACC TATATATTCC TACTGTAATA 120
 ACCAAGAGGA CATTTCAAAA ATGTATATGC TACTATTTTC AGAAGGNTAT AGATACTAAA 180
 TCTTTTAAAG CCTTATTAAA CTATGTTTTA TATTGAAA 218

(2) INFORMATION FOR SEQ ID NO: 3990:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 217
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04715

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3990:

GATCTGTTAA ATTGGATTTT ACATGTACAT TTGAATGCCA GAATTCTAA ATAAATCCCC 60
 TGGTTAGGAA ATTTTAAAAG TCAAAGCTTG TTTCTTCAA CCACTACCTT CTACATTGGT 120
 TGACTTAGAC CGTAAGCTTT TTAAGTTTCT CATTGTAATT TACCTTCTCA TGCAGATTGC 180
 TGATGTTTTA TTAAACCTTA TTTTACAAA AATGAAA 217

(2) INFORMATION FOR SEQ ID NO: 3991:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 281
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04716

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3991:

GATCTTATTA GACTCATACA TCTAATTATA GAAATACATA GACTTGATAG AATTTNATTT 60
 TCAGGCNTGA AGAAATATTC TTTGGAAAAG CTAAATTTT GGTGATTGAC ATAAAGATTT 120
 ACTNGCTCAT ATTANCTNGG GGGGNTAGTA CTCTCCAAGA ATTAATGTGC CCTAAAAATT 180
 TTCCTCCAAA ANCTTATCCT TATCATGTGA TAATGANGAN CATTGATTT CTGAAAGGA 240
 GACTGCTGTA GGCAGCATCT GGGAATGCAA NTNNGGGGNN N 281

(2) INFORMATION FOR SEQ ID NO: 3992:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 217
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04717

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3992:

```
GATCAGCCTG GGCAACATAG CCATAGTGAG ACACCAACTC TCTACAACAG CAAAACAAAA 60
CAAAACAAAA AAACATGCAG CTGGGCATGG TGGTNACACC TGTGGTCCTA GCTACTCAGG 120
AGGCTGAGGT GGGAGGATTG CTGGAGCTAG GATGTCAAGN TTAGTGANCG TATTCGACCA 180
CTNACTCAGC TGGNAACAGA NGAGACCTGT CTAGAAA 217
```

(2) INFORMATION FOR SEQ ID NO: 3993:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 216
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04718

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3993:

```
GATCATTTTT TGAGGCAGGA GCATAACACC TTCTCTAGGA TTTGTCAGCT TCTAAAAAGA 60
GCCTTTTGTA AGGACTTGTA TGAGCTTGGG TTTCACCATC ATTACTGGGG AGGCACTAAG 120
ACTGCACATA TCTCTGGGTG AAGTAATGTC TACACANCAC CTTTCATAGC AATAGTTCCT 180
AGCTAGCATA CCTGCTTCTG CCAGTCCAGG GCCAAA 216
```

(2) INFORMATION FOR SEQ ID NO: 3994:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 220
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04719

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3994:

```
GATCCAGACT ATAATCCTGC TGACCCAGAG AGTGACTCAG CTGACTAATG GACTGTCCCC 60
ATCTGCAGAG AGGCTTGACT GCCACAGCAT CTGTGGCTAT GCTCAGAGGG TTATGATTTT 120
CCTTTCTTTT NNNTAAGAAA AAATTATTTT CAGGAGAATA TTCTTCTGAT AGCTTTCATC 180
ATTGAACCTA ATAACTGAC CTTAAATTT CAAATATAAA 220
```

(2) INFORMATION FOR SEQ ID NO: 3995:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 215
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04720
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3995:
 GATCTAAGGA AGAACTTGCT GCTGCAGTAT TGAAACTGIG AAGAACTGAC ATTTGAAGAA 60
 AAATAGATTA CCGTTGCGGG ACTAGAATGG GCGACTGCTT GGAGCCAGTG CTTGTTTTTA 120
 TCTAGGACAC TTAGTGTCTT GTGAAGTAGA ATACATTTAT CTGCATTTAG TTTGTTAATG 180
 TCTGAAATGA ATAAAAAGAG GAAATTGCGA TTAAA 215

(2) INFORMATION FOR SEQ ID NO: 3996:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 214
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04721
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3996:
 GATCCAGAGA CAGAGGCAGC CTGTCTTTTC AGTTGGTTTC TGCTTTTAAT TTACTTGTAC 60
 AATTCATTGT TACTGTTCTG TTTTTCCTAT TAATCTTTTG TCAACTTCCT GATTATGTAA 120
 CAAAGTATGT ACAGTCTACT TTTGACCTAT TTTTATCACA GTATNATTNA TTNCTTCTTT 180
 CAATAAAGTA CTNGNGCATA TTTCCACTGC CAAA 214

(2) INFORMATION FOR SEQ ID NO: 3997:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 214
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04722
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3997:
 GATCCGNAGT TCAAGGGAAG AGGAAGTTGC CTCTNAGCTC CATCTCTCTG CGCTGCTAGA 60
 CATGGTGGAC ATTTGAGCAG CCTGACCTGT GGGGAGGGGG TCTCTCCCGA AGAGTTTCTG 120
 TTTTACTCA AAATAATGTT ATTCTCAGAT GCTTGATGCA CTGTTGGAAA NGGGGATTAA 180
 TTTAATCATG CAGATAAACC ATTTAAATGT CAAA 214

(2) INFORMATION FOR SEQ ID NO: 3998:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 212
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04723
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3998:
 GATCGAAACC AGCCTGGTCA ACATGGTAAA ACACTGTCCC TACTAAAAAT ACAGAAATNA 60

GCCAGCAATA CAAAAATTGG CAGCTGTAGT CCCAACTACT TGGNAGGCTG AAGCACAAGA 120
 ATCGCTTGAN CCCAGGAGGT GGGAGGTTGC AGTGAGCTGA GATTGCGCCA CTGCACTCCA 180
 GCCTGGGCGA CAAAGCGAGA CTCTGTCTCA AA 212

(2) INFORMATION FOR SEQ ID NO: 3999:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 211
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04724

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3999:

GATCTCAGNA ATTGGAAAAA TTGTCCTGTC TGTCACCTGT TTTGTTGCCT TAATAAGCAT 60
 CTGAATGTTT GGTTGTGGGG CGGGTTCTGA AGCGATGAGA GAAATGCCCC TATTAGGAGG 120
 ATTACTTGAG CCCTGGAGGT CAAAGCTGAG GTGAGCCATG ATTACTCCAC TGCACTCCAG 180
 CCTGGGCAAC AGAGCCAGGC CCTGTATCAA A 211

(2) INFORMATION FOR SEQ ID NO: 4000:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 210
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04725

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4000:

GATCAAGGCT ATGAACATCT TGTGAAGTAG GATGTTAAGT CTGCAAATAT CAGAGTGAAT 60
 CCAAACCTTAT CAATTCAACA CTGGATTGTA AAACAGCTCA AAAAAAGACT AAAAACACAG 120
 CTCTACACTT TAGGAGGTTG GGGCAGGCAG ATTGCTCGAG CTCAGGAGTG GGAGACAAGT 180
 TTAGGAAACA TGGAAAAACC CTGTCTCAAA 210

(2) INFORMATION FOR SEQ ID NO: 4001:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 209
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04728

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4001:

GATCAGCATT CATACCATAG TAACTGATGT TGAAAACAGC ACAAATAAAC CAGAAGTTGA 60
 AAATGGCAAT AACATGCTAA AAATTTGCAA GTCAATTTGA NNACACTTGT CCAAATCTTG 120
 ATTTTTTTTC CTTCTCTATC GTTCCCCCCC CACCACCAGC TTTATGGAGG TATAATTAGC 180
 AAATAAAAAG TATACATATT TAAGGTAAA 209

(2) INFORMATION FOR SEQ ID NO: 4002:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 209
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04729
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4002:
 GATCCTATGA ATTAATTCAG AAAGCAACTA AAATAACAAT GGCCTGCCAA ATGTCATTTT 60
 GTAAATATAC GTCTATGACT TTAGGAGCTG TCCTGGTTTG AAAACATGAG GACAGTTTAT 120
 CCATTGGATG CCATCTATNT AGTCCCAATT AAGAAAGTTG TTTTTTTGTG AGAATGACCA 180
 AGGTAAATTT AAATATACCA TTCAAACAN 209

(2) INFORMATION FOR SEQ ID NO: 4003:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 208
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04730
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4003:
 GATCGATGAA GCACTTTTTT ATTAATATTT TCCTTTGTTA AAGGAGGAAC CGTAACTCTC 60
 CATAGCTGTA CATATAACCC TTTTCTCCTA AAGAGGAGTC AGTCAGTGCT CCTATATTTT 120
 TCATTTTTTG TCAAAGCAAG AAGTAAATAC TTTAGAATTG TTAAATATAT AAATAAAGCA 180
 AATAAAGTTG AGTGTTCCAC ATGGTAAA 208

(2) INFORMATION FOR SEQ ID NO: 4004:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 207
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04732
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4004:
 GATCTTTCCA CATACACTAC ATTGTATTGT TCAAAATTCA TAGAAATNAC TTGCAATATA 60
 TTGATTTAAG CCTTATGTAG TGACTGTTGC TATATTTAAA GTAGCATTTT NAGTTTGCTG 120
 TTTTTCCTCA CTGCTTAATC CTACAAAAAC CAGCCATCTG CCTAAAAAAT AAAAGAGCAA 180
 AANTGNATCA GTGCAACCGG TATACGN 207

(2) INFORMATION FOR SEQ ID NO: 4005:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 207
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04733

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4005:

GATCCACATC TCAAAGAAGT GGGACTTCAC CAAGGTNCAA TGCTGATGAA TTTGAACNCA 60
 TGGTGGCTGA AAAGGGGCTC ATCCCANGAT GGCTGTGGGG CAAGTCATCC CAGTCGTGGC 120
 CTATGGCAAG TNNNGGGCCT NACTCATGAG GGCTTCAATG TGCTGCCCCC TCTTAATACT 180
 CACCAATAAA TTCTACTTCT GTCCAAA 207

(2) INFORMATION FOR SEQ ID NO: 4006:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 205
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04734

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4006:

GATCTACATT ATTCAGCAGC CTCGAAAATG TTAAGCCTGG ATTTAAAACA CAGCCGTCTG 60
 GCCAGCTGCC TCGAATATCT GACAGCTTAG CAAAAGGGC CANAGCTTTC CATAGGCGTG 120
 CTGCACTTGC TTGGTAAATT AAGCAGCTTT TGTATCTTCC CCTTTGACTT TAGGTAATAA 180
 AGCATCCAAA CTTGTAAATC TGAAA 205

(2) INFORMATION FOR SEQ ID NO: 4007:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 204
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04735

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4007:

GATCTGGGAT AAAACCAGAC TGAAAGGAAT ACCTCAGAAG AGATGCTTCA TTGAGTGTTC 60
 ATTAAACCAC ACATGTATTT TGTATTTATT TTACATTTAA ATTCCACAG CAAATAGAAA 120
 ATAATTTATC ATACTTGATC AATTAAGTGA AGAATTGATA ATAAGTGAAT GTGAAACATC 180
 AATAAGACC ACTTAATGCA CAAA 204

(2) INFORMATION FOR SEQ ID NO: 4008:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 203
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04736

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4008:

GATCTNCTTT TTATCACTAT AGTTTGTATT CCTAGAATTG TATATAAATG GAATCCAACG 60
 GGCACAGTGA CACATGCCCTG TAGTTCCAGC TACTTGAGAG GCTGAGGTGG GAGGATTCCT 120
 TCAGCCCAGT TCAAGGCTGC AATGAGCTAT GACCACGCCT ATGCACTNCA GCCTGGGCAA 180

TATAACAAGA CCCTATATCT AAA

203

(2) INFORMATION FOR SEQ ID NO: 4009:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 202
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04737

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4009:

```
GATCTGAAAA GAATTNTAT TTAAATTGGG TTGAGGGAGA GTAGATACAA TGAAACCTTA 60
AATTTTCAGCT TTNATTCTAA ACCCTTTAAT TTTTATGGG TTATGTTTTA CTTGGCAAAA 120
CTATCTGTGT TTCTNTCTTA GTGATATAGC ACCCTTAAAG TAACTTGAGT GGTAAAGGAA 180
ATAAAATACA CCAGTTTTC A 202
```

(2) INFORMATION FOR SEQ ID NO: 4010:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 201
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04738

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4010:

```
GATCCTCTTC CTGCTCCAGT TGCTGGCCGA CCACGTCCCT GGCCTTGGCC TGGTCACAAG 60
GCCGCTCATG GATTACTTGC CCACCTGGCA GAAAATCTAC TTCTACAGTT GGGGCTGACA 120
GACCTCCCGG AAGGAGGGTG TGGGGAGGGG TGGGGCAGGG AGCCCCTCTT CCCTAATAAA 180
ACTGACTCCG GCAGCGTCAA A 201
```

(2) INFORMATION FOR SEQ ID NO: 4011:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 201
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04739

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4011:

```
GATCCTATTT GTACAAAAA ATGTAAAACT TAAATTTGCA CAAAATTTGT NACCTGTACC 60
AGCTTTTAGA ACTGTTTATC TTATCCTCCT CAGTGATACA TCATGAAGTT GTGTGCTTTG 120
CCTAAAATGC CCAGTTACCT GAAATTGTAT AAATNCTTGC CAAAAGTGTT TGAACCTAAT 180
ACAACTTCC CATCTCTTAA A 201
```

(2) INFORMATION FOR SEQ ID NO: 4012:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 201
- (B) TYPE: nucleic acid

(C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04740
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4012:
 GATCTCATTT TATTTAGCAT CAGCTCAAGA AACTNAAGTC TTAGTGCACA GTATCACAAC 60
 AAAGAAAAAG CTTTGTTTTT ATAAGTGGTA AAAACAAGAA AAGATTCTCA TCAAAATGAA 120
 AATATAAAAT TAATCATTTT TCACCAAAGA GTATGCCTGG GAGCCTCCAG CTGTTAAAAG 180
 NCAATGCTAT TACTACTTCT N 201

(2) INFORMATION FOR SEQ ID NO: 4013:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 200
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04741
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4013:
 GATCCAAGTT GCCCTTGGGG TATAAACTT GACAGCAGAG GGCGTTCAGG GTCCCTCAGC 60
 TGCAGTGTGA AGTGGGACAC ACAGGTGAGA CTCCATCTGC CCTGGGCAGG TTCCTGAGCC 120
 TTNGGGGACC AGTTCACCTT ACATCCCAGG CTTCTGTTGT CCCTTGCCTG CCTGTAAGGA 180
 ATAAAGTTGC TTTGCTTAAA 200

(2) INFORMATION FOR SEQ ID NO: 4014:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 200
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04742
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4014:
 GATCTGACCT TTTCTTCAGA TACATAAGCA TTATTTTCTC TGTTTAGGTC CAAGGAAAAA 60
 CAAAAGGTAA AGGNAATAAA GGGAATATAC ATAAGGCAAA CATTCTCTTT TTTTTTTTGC 120
 ATTATATCTT ACCAATTAAT TAAATTGTGG CCTTTGTTAT TATAAATGTA ATGATTCATT 180
 AACTATATT ATGTAATAAA 200

(2) INFORMATION FOR SEQ ID NO: 4015:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 200
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04743
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4015:

GATCCTATGA CTGACATCAA CTAAAATTTA AAAGAAGAGG AAGACTCAGT TGGGAAATTT 60
 TNCCATGAGG AAAATGTGCT TTGGTGCAAG GTACAAGGCC CACACCCTCT CTGAGAGATA 120
 CTATGATTAA AAAAGCTTTA TATCTTGGGA TTTTNCACAA CTGATAATGT GCAAAGNTAT 180
 AAACNGATTA ACTTGTCAAA 200

(2) INFORMATION FOR SEQ ID NO: 4016:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 200
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04744

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4016:

GATCTTTCAA GAATGAACCA AGGNTTTTTA AAAGAATTAT AGGAAACACT TCATTCTTTA 60
 TAAACCTTTC TATAATGCCT TATTTGAATG TTAATCTTAT GTGCTTTCTA AAAAATGTTG 120
 TGAAATACCA AACTTATGGA TTATCACTAG GTTATCAAGC ATATATNAGT CTTTATCAGA 180
 NTAAAATGAA ATTNCATAAA 200

(2) INFORMATION FOR SEQ ID NO: 4017:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 199
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04745

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4017:

GATCTGAGAG GCAGTAAAGC AGTGATGAAG ACAGTGCAGC AGAACATTGA AGTCCTGATT 60
 GCAGCAGTGA CTCTGCAACC TTGATAAAT TATTTTANTC TTTATTTTGT AAAACGGAGA 120
 TAACGGCCTA TAGGATTNTN AAGACTGANT ATTTTAAAAG NGCTTAGAAT GGTGCCTGAC 180
 AAATGAGNNN CANTAAATN 199

(2) INFORMATION FOR SEQ ID NO: 4018:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 199
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04746

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4018:

GATCATGTGA TTTCTATTTT TNCCCCACAG GGTAAGGGAC GAGTCTTCTG GAAGGCTCTG 60
 CCATGGACAT TTGTCCTCGG GCTCAGAGGC CCCACCCTGC CCCACACCTG CCCCTAATCA 120
 CTGCAGTGTC CAGCCAGTG TTGAACAGAT TGTAGCGTTC TGTCTCATTG CGAGCAAATA 180
 AATAGACTTT CATTGGAAA 199

(2) INFORMATION FOR SEQ ID NO: 4019:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 198
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04747

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4019:

```
GATCACGCGG CATGTATTGA GGTGTGGCAT GCAGCATTTT GGAAGGAAAA TTGAAGACGT 60
GTTCAAGAAA ACATGAACAG AAGCAAATNA TGAAAATGAG CATTTTACTT GATGTTGATA 120
ACATCACAAT AAATTATGGA GAAAAATACA TATTTGGCTA ACTTTTAATT GCTGANCAAT 180
AAAGTGTTTT CTTTAA 198
```

(2) INFORMATION FOR SEQ ID NO: 4020:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 196
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04748

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4020:

```
GATCCCTACC GCCAGCTGCG AGAGAAGGAC CCAAGTACA GTGCTCTCCG CCAGAATTTTC 60
TTCCGCTACC ATGGGCTGTC CTCTCTTTGC AATCTGGGCT GCGTCCTGAG CAATGGGCTC 120
TGTCTCNCTG GCCTTGCCCT GGAAATAAGG AGCCTCTAGC ATGGGCCCTG CATGCTAATA 180
AATGCTTCTT CAGAAA 196
```

(2) INFORMATION FOR SEQ ID NO: 4021:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 196
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04750

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4021:

```
GATCATGAAG AAGCAGGGCC TCTACCTACA AAAGTNAATC TTGCTCATTC TGAAATTTAA 60
GCATTTTCT TTTAAAAGAC AAGTGTAATA GACATCTAAA ATTCCACTCC TCATAGAGCT 120
TTTAAAATGG TTTCAATGGA TATAGGCCTT AAGAAATCAC TATAAATGC AAATAAAGTT 180
ACTCAAATCT GTGAAA 196
```

(2) INFORMATION FOR SEQ ID NO: 4022:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 195
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04751

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4022:

GATCTGGTTC CAGGGGAAAA AAATAGCTGG TTGGTGTCTA GCCCCCAAC ACTTTTGTCT 60
 GTTGTGTATA AAAGAAGAAA GACTGGCATG TACCTTCATT TGCTTAGCTA TTTGAGTATC 120
 TAGAGAAAAA TTAAATGCA ATGAGTTAGC AGTATACCCT GGCACACTTA ATAAATTAAA 180
 CATTTGTGGA GCAAA 195

(2) INFORMATION FOR SEQ ID NO: 4023:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 194
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04752

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4023:

GATCTAGAAG CTGGTAAAAA TGACAATATC AATCACATTA GGGGAACCAT TGTGTCTTC 60
 ACTTAATCCA TTTAGCACTA TTTAAATAA GCACACCAAG TTATATGACT AATATAACTT 120
 GAAAATTTTT TATACTGAGG GGTTGGTGAT AACTCTTGAG GATGTAATGC ATTANTAAAA 180
 ATCAACTCAT CAAA 194

(2) INFORMATION FOR SEQ ID NO: 4024:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 193
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04753

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4024:

GATCCAACAG CAACACCATT TTAAATTAT TGTGAAAAGA TTAAGTGGCA ATGTACAGAG 60
 TTTACTCAAA GCCCTTCTTA AGGGAAAACA CTACAAAAG TCACAAGGAT ACCAAATGGA 120
 AACACATGAT GATGCCTCTG GGTCTGTATG AGACCGTGAT GAAGTAGAAA TAAAGCCCTT 180
 CTGAGATGGC AAA 193

(2) INFORMATION FOR SEQ ID NO: 4025:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 191
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04754

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4025:

GATCCACGGT GGGCTCCAGC TGCCAAGNCA CCAAGGGAG TCTGGGCCCT AGGCCTAGCC 60

CCATCCCTCC CCATGAGGGG CCAAGACACT GCCTAAGGTG TGGGAGGGAC TGGCTGAGAT 120
 TGCAGCCCAT GGTAGGAGCT GGACCAACTG TATATAGTTT TCAATAAACT TTTTCCTTTT 180
 CTGTTCTCAA A 191

(2) INFORMATION FOR SEQ ID NO: 4026:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 264
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04755

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4026:

GATCCAGGAA GTTGGTGAAC CATCTAAAGA AGAGAAGGCT GTGGCCAAGT ATCTTCGATT 60
 CAACTGTCCA ACAAAGTCCA CCAATATNAT GGGTCACCGG GTTGATTATT TNATTGCTTC 120
 AAAAGCAGTG GACTGTCTNT TGGATTCAAA GTGGGCAAAG GCCAAGAAAG GNGAGGAAGC 180
 TTTATTTACA NCCAGGGAGT CTNTGGTTGA CTACTGCAAC CAGGCTTTTA AAGTAGCAGT 240
 TTNTTTCACC GAGCCCTAAA GGTN 264

(2) INFORMATION FOR SEQ ID NO: 4027:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 186
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04756

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4027:

GATCTTCACA TATTTTATAT GNATATATAT ATCAAGAAGT TATATATATA TAACTCAAGA 60
 AACTCAAGTT ATATATATAT GTCAAGAAAT GTATGATTAT TTTGGAGAGA ATGGGCCCAA 120
 ATGTGAAAAA GATATAAAAA AAACAAAAAA AACNNAAAAA AAACCNCTNT TTNCCCCTNC 180
 GNANTN 186

(2) INFORMATION FOR SEQ ID NO: 4028:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 150
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04757

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4028:

GATCTGGAAG TCACCCTCCT CTGGCCCACG GAAAATTTTG GTAATCTTCT AGGTTCTAAA 60
 ATGAAGATGT ATGGGTACTC TGGCAGACTG CATGTTGTAT AATTTGAAAA ATACTAAAAG 120
 TGGAAAAATAA AATTGAATTA AACTTTGAAA 150

(2) INFORMATION FOR SEQ ID NO: 4029:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 186
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS04758
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4029:

```
GATCAACAAG TTCAAAACAC TGCTAAGTCT AAATCTAAAA CAGACCAAGA GTACCTTCAT 60
TTAANTTTAG CTGTCACAGA GCTTGATGCC TATCCTNCAT TCTTNCAGA AGTAAAGATA 120
ATTATGGCAC TTATGCCAAA NTTATTATT TAATAANGTT TTAATTGAGG TAACATTACT 180
GATTTN 186
```

(2) INFORMATION FOR SEQ ID NO: 4030:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 183
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04759

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4030:

```
GATCCAACAC AGAGACAATA GAAACATTGG GATTGAAGAG ATTCTTGGGA CTGTAAAAAT 60
CCCAAGAATA TGGGATTGTA AAAACCTGT CATCTTACTG CTATGATAGA TGAAGATTTT 120
GCTTGCCTAT ACCTGTNGC TATTCCTCTC TTCCTTTCCT CCAAATATAC TTGTAGGTAT 180
AAA 183
```

(2) INFORMATION FOR SEQ ID NO: 4031:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 183
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04760

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4031:

```
GATCTAGCAT TTAAATTTCT AGCATTGCTA TTCACCGGCT TCCTTATTTT ATATGTAAAA 60
ATTAAGATTT TATATTTAAT CTTCTGTTT CTCATAGATA TTTTGTGAGC ATTTTNTTGT 120
TTATTTTGAA GAAATGTGGA TAAGATACTT GGTAGTATAA AACAGNCTCT CTGAGAGTAT 180
TTN 183
```

(2) INFORMATION FOR SEQ ID NO: 4032:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 182
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04761

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4032:

GATCAAGGTC TGTATATTAT CCCAAACTTT ATTAAGAATT GTTTTCTAAT TNGTTATAAC 60
 ATTTTNAAT TAATAGTTTC AAAACAAATT GTTAATACAA CTGTATAAAA TGAACATAAT 120
 TTTCCTCACT TGTATTTTGT TTATTGAGCA AGTTTATCAA AATAAATNGT CTAATAAAGA 180
 AA 182

(2) INFORMATION FOR SEQ ID NO: 4033:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 181
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04762

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4033:

GATCTCTTAT CAATTAGCAC TCACTAATGT ACTACTAATT GAGCAACCTA CGCACTCAGT 60
 TGACTACGTA AATCTGTCAG GTCTTTTGTG ATTTCTCTG ATGCAGGAGA GGAAAAATTG 120
 TAATTGATGA AAATAATGAA TGAAAATCAA CAGATGAATA AATGGTTCTT TATAAGTGAA 180
 A 181

(2) INFORMATION FOR SEQ ID NO: 4034:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 180
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04763

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4034:

GATCTGGAGT CCCACGTTCC CCAAGGCCAG CGGGATGTGT GCCCCTCCTC CTCCCAACTC 60
 ATCTTTCAGG AACACGAGGA TTCTTGCTTT CTGGAAAAGT GTCCCAGCTT AGGGATAAGT 120
 GTCTAGCACA GAATGGGGCA CACATTAGGT GCTTAATAAA TGCTGGATGG ATGCAGGAAA 180

(2) INFORMATION FOR SEQ ID NO: 4035:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 180
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04764

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4035:

GATCCTGTTT GTACAAAGTC TTGCTTTTAT AAGGTTTCAA TAATATCTAA AACAAACACAT 60
 TAAAAAGCTG AGACCATTTT ATGAAGATAA TTGTTTGTAA TCATAGGTGT TGAAAGTAAA 120
 AAGGTGCCAT CTTGTGGTAT TGACTTGTAT TTATAACAAA TAACTGCTC AAGAGACAAA 180

(2) INFORMATION FOR SEQ ID NO: 4036:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 180
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04765

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4036:

GATCCTGGTT ACAGCCATT TGTGTGATTC ACTTCGGGGG TTAAGTAATG CAGGATTCTG 60
CAAACAAGGT GTCGCCGTCC AAATGTACTG TCCTGGCATA GAGAGCACTG CTTTGTTTTC 120
CACTGTTGTA GAGAAACTA GGGAGAACTT TATTTTTCAT TAAACTTTTC TTGTGTGAAA 180

(2) INFORMATION FOR SEQ ID NO: 4037:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 178
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04766

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4037:

GATCATGTAT AAAAAGAAAA AAAAGAAGTC ATGCTNTGTG GCCAATTATA ATTNTTNCA 60
AAGACTTTGT CACAAAACGT TCTATATTAG ACATTTTGGA GGGACCAGGA AATGTAAGAC 120
ACCAAATCCT CCATCTNTNC AGTGTGCCTG ATGTCACCTN ATGATTGCT GTTACTNN 178

(2) INFORMATION FOR SEQ ID NO: 4038:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 177
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04767

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4038:

GATCAGGATT TGGGAAAATT GTGGTCAATA TTTGATTTTC CTTTCTGTT TGATAGCCTT 60
ATCTAAATTC CCCTAGCTTG AATGTAGTAA ATATGAGTGT GTAAAAATGT GTATCTAATT 120
CACCTCTTNG GGGAGGTTTA ATGTAACAT AAATAAAAAT TCTTTCCCA GGTAAA 177

(2) INFORMATION FOR SEQ ID NO: 4039:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 175
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04768

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4039:

```
GATCTTACCT CCTAACCAAC TCCATACATC ATGACCAATG GCTCAGTCCA AGCNGTCATC 60
TCTTGCTTGG TCACTGCAGG TACTTGCTAA CTTTCTTCCC AATAATCCAA CCCCCACAGA 120
GCAGCCAGAG TAGCCTTTTT TTGTTTTGTT TTGTTTTGTT TTGTTTTGTT TTGTN 175
```

(2) INFORMATION FOR SEQ ID NO: 4040:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 175
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04769

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4040:

```
GATCTTAATA GCTAAAATAT GAAAAATATT TGGNAAGTCT GAAATNAGGT CTCCTGGCCC 60
TGGTGTGCCC TTAATGCCTG TNACAGTTGG CCTCTGTGAA TATTGGTATA ATTNTAAATA 120
ATGTCAAACCT CCATTTTNTA GCAAGTATTA ATAATTAAGG GAAGTATGTC TGAAA 175
```

(2) INFORMATION FOR SEQ ID NO: 4041:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 174
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04770

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4041:

```
GATCCTCAGG ATATGCAGGG CTCAAGAGAA ATGAAATATC TTGGGGATAT GGTTACTTAA 60
GACGTGATAC TGTACAGTG AATTTACAG AAGATGGTGC TGCCCTAACT GAGGTTCAAT 120
CCATGTATAA GCCAGACCAA TCTGAAGACA AATAAAGTAT TTCACAGCCA CAAA 174
```

(2) INFORMATION FOR SEQ ID NO: 4042:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 171
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04771

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4042:

```
GATCTTCAAA CATTAACTTA AGCAGACCAA AAATTCTGAT GACCGCATCT AGATTATTTT 60
TTTATAAAAA TGATTTTCAC TATAGCTATG TTACGCTAAG CTACTGTCCA ATCTCTGTG 120
ATGTGTAACCT TTTACATGTG AATATTAAAG TAGATTTCTC TGTCTTGTA A 171
```

(2) INFORMATION FOR SEQ ID NO: 4043:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 170

(B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04772
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4043:
 GATCTTTAAA GATGTGCTAA ATGACTTTTT TGGCCAAAGG CTTAGTTGTG AAAAATATAA 60
 TTTTAAATT ATACATTCAA GGTAGTGGCC AAATGTAACA CATCAATCAT GGAATGATTN 120
 CTCTGCTAAC AGCCGCTGT ATGTTTCAAT NAATTTGTCC AAAGCTCAAA 170

(2) INFORMATION FOR SEQ ID NO: 4044:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 169
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04773
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4044:
 GATCCTTCCC AGTGGACAGA TGAAGAATTA GGTATCCCTC CTGATGATGA AGACTGAAGN 60
 TGTAGACTCA GCCTCACTCT GTACAAGAGC CAGGTGAGAA TTTCAAGGAT TATCGACTTC 120
 ATATTGCACA TTAAAGTTAC AAATTAAAGT GGCTTGGTCA AGAATGAAA 169

(2) INFORMATION FOR SEQ ID NO: 4045:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 169
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04774
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4045:
 GATCTAGTGT GTAGTGAGCT CAGTATAGAG GACAGAGCTT TCATCATGTA AATTNATATG 60
 CAAAGCCAAA TNAACGTGG TGTGTACTTC CTACTGATGC GTCAGGGTAT AGGCCTCTTT 120
 TTCTGCCATT CAAATAATGG AAGTTAATTA AATTTTAAAC AAATGTAAA 169

(2) INFORMATION FOR SEQ ID NO: 4046:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 169
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04775
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4046:
 GATCCATACT GAAAAAATNC TGAGCCAGCC ATCTTTGGCA AAGNNCCCTG AGCTCTTGCT 60

ATCTCTCAAG AGTGCTGAGA NCCACGGTGA AAGTNCTGCT CTAGGCCAC AAGTGTA ACT 120
 ATGCTGTAA CAGCTGTCAA TAGATAATTA AAATTCATAC TGTATGAAA 169

(2) INFORMATION FOR SEQ ID NO: 4047:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 168
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04776

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4047:

GATCTCTGTT CTNGNTTGAA TGTATTTAAT TTCCAGCAGA ATGAGCCCCA TTCCTTATTT 60
 TGATTGGCCA TTTATCATGT ACATATGGTG AAATGCCTAT TCGTGACTTA GCCAATGTTG 120
 TTTCTTTTTC TTAGTGATTA CTACAGTACA TTTTATATG AAAGCAAA 168

(2) INFORMATION FOR SEQ ID NO: 4048:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 212
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04777

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4048:

GATCTGCTGA AGCATCTGTC CAGCTGGTAT CCTGTGAAAG TTTGTAATTT NCTGAGTAGA 60
 CATTCTTATA GAGTATTGTC TTTAAAATCA GATTGTCTCT NCTATATTGA AAGCATTTNN 120
 ATGTTTNCNA ATTTAAAAT TAATATTTCC TTATAGATAT TGTGCAATAA AGCTGAAGTA 180
 GAATGTGTGG TTTTTCGAAA TNCTTTAGCG GN 212

(2) INFORMATION FOR SEQ ID NO: 4049:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 167
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04778

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4049:

GATCTTGTCT CACAAAATAA ATTAAAAAGA TTTTAAATA GCAGGTTTCT AAAACAATGA 60
 GAAAGACAGC ATTACATATC AGTGTCTACA ATTTAAACAA AGCTATACTT AGAAGTAAAT 120
 TCATTGTCTT AACTGCTTTT GTTCCAATAA AACAAAATAG CAGGAAA 167

(2) INFORMATION FOR SEQ ID NO: 4050:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 176
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04779

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4050:

```
GATCGTTACT ATGTGTCAAA GGGTTTGGAG AACATTGATT AAGGAAGCAT NTTCTGATT 60
GATGAAAAAA ATAACTCAGT TATGGCCATC TACCCCTGCT AGAAGGTTAC AGTGTATTAT 120
GTAGCATGCA ATGTGTTATG TAGTGCTTAA TAAAAATAAA ATGAAAAAAA TGCAAA 176
```

(2) INFORMATION FOR SEQ ID NO: 4051:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 166

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04780

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4051:

```
GATCTATAAC TGTACTTTGC CTGGCGCTGT GCGAAGGTCA GAAAACCTAC TGCTAGTACC 60
TAGAAACACA CAAGGCTGCC CAGCCAAATC TTAATGTAAA GTAGCTAGAG CCATGGAAGT 120
ACAGTATGAA TTAAAAAGAA AAANGTATTG ANCTTCAAAT TCTAAA 166
```

(2) INFORMATION FOR SEQ ID NO: 4052:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 163

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04781

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4052:

```
GATCTTGTAAG TAGGAAAGC TGTAACATAA AATTGTATTG TTTGCTTATT AGCCATGTAT 60
CTCTTAAAAT TTTGTTATGT TTACAACGAT GTACCTTATT GGCAACAAGT TATTAGTTTG 120
ATGTTTAAAC ATAGTGCCTT TAGTAAATNA TTTTACAAC AAA 163
```

(2) INFORMATION FOR SEQ ID NO: 4053:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 162

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04782

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4053:

```
GATCCAAAAG CTGGCTNTCT AACCACCAGC CAAGGGCTCT CTTCACCACC AAGCCAACTC 60
TCAGGGCAGC AGCAATGTGT ACCTTATTAA CCTCTGCACC CNAGGTCCTA GCACAGGGCT 120
NGTCCATAAC AGGCGNCCAA TAAACATGTG TCATAATCTA AA 162
```

(2) INFORMATION FOR SEQ ID NO: 4054:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 161
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04783

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4054:

```
GATCCCTGGT CCTGCCGACA CGCAGCTACT GAGAAGACCA AAAGAGGTGT GTGTNTGTCT 60
ATGTGTGTGT TTCAGCACTT TGTAATAGC AAGAAGCTGT ACAGATTCTA GTTAATGTTG 120
TGAATAACAT CAATTAATGT AACTAGTTAA TTACTATGAA A 161
```

(2) INFORMATION FOR SEQ ID NO: 4055:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 159
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04784

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4055:

```
GATCGGCACC ACACCAGACA TAATCCTGGA CGACTTGCTG GAGACGGACC GCGTCACCGC 60
CCACTTCTAG CCCCCTGGAT GCCGTCACCA CCAGCACACG GAACTACCTC CCACCCCCTT 120
TTTGTACAAA ACACAAGGAA AAACATTTTT TGCTTGAAA 159
```

(2) INFORMATION FOR SEQ ID NO: 4056:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 159
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04785

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4056:

```
GATCTAATTC TTTTGATAAA GTTCTAGCTC TAAAAGTGAT AGTGGGACTG TATGTTTCT 60
GATACTGGTG GCTTATGTTA TTAANCCTTT TTAAAAAAG GTCCACTCTA AAGGCTGANN 120
NCCACCCTAN GTTTCAGCC TCCTGGCCTC NACCNGGNN 159
```

(2) INFORMATION FOR SEQ ID NO: 4057:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 158
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04786

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4057:
 GATCTTGTGT TCTTTGTGCC AATATGAAAA GGAGAGGGTT GGTTCTTTCC TTTATTGTTG 60
 AATGCTCCCA TTTAATGCTT TATGGCTTTT ACTGTATTAC TTTTITAGAC TCCCGTCTGC 120
 ACAAAATGCA ATAAAAATAA TTTTATTATA CCCTTAAA 158

(2) INFORMATION FOR SEQ ID NO: 4058:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 158
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04787
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4058:
 GATCACACTG GGGAAAAGTG ACAGAACCAA ATTTCAAACCT CCAGTCTTTC TGCTTCTAGA 60
 GATTGAACTA CTAACATCTG CATTATATAA AATTAAGTNT CTCAAGGTAG TTTGTGAACG 120
 TAACATACAA ATAAGTGATT AAAATTTTNG GTGATAAA 158

(2) INFORMATION FOR SEQ ID NO: 4059:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 308
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04788
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4059:
 GATCCCAAGT GATTAAAATA GGGTTTCTGA ATGGATGTTG AATGGCGTGG ACTCGCTACT 60
 CCGTTCTTCA CAGCTGCCTT CCAGAATGTG TTCAAAGAA AGACAAGAAG GAGTGTATGG 120
 CTTATAAAGT GAATCTAATA CAGTATTTGT TGCATTTAAA CAACTAGAC ATTTTCTTAC 180
 GGAAANTTA TGAAATACAG CATATTTNAT GTNCTCCCAT TGACTCAATC ATGACAATAT 240
 TTCTGCTTTA ACACCATCTT TCATGATTAG NAATGTTTGT NATTGGAAT GTTACACCAT 300
 GTAAATAN 308

(2) INFORMATION FOR SEQ ID NO: 4060:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 155
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04789
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4060:
 GATCAGCCCC AGATTTGACG TGCACTCAAA GACCTGGAAA AATGGCAGAA TAATCTGCTT 60
 CCATCCCGCC AGTTTGGTTT CATTGTACCT GACCACCTC ACNGGCAANC ATGGACCCAT 120
 GAAGNAGCAA NNCGGAAACN CACNAGAGGG AAAAN 155

(2) INFORMATION FOR SEQ ID NO: 4061:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 155
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04790

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4061:

```
GATCTCATTG GTATGTTTTT TAATGTGTAG AATTAACACT TTAAAATAAA CAGGTGTGAA 60
AATTATAAAG GAATATATAT GACAATTATT TNCTGTACAT TAATGTCTAA ACATTATACT 120
TACTTTTCCA TAATAAAGGA AATTTTGGAA CCAA 155
```

(2) INFORMATION FOR SEQ ID NO: 4062:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 155
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04791

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4062:

```
GATCTTAAAA CCAAGACAT TATATTTGAA GGGGCACAGC AAACAGTGCA AGAAAATCTG 60
CTGATGGAAG ATNATTTTNA TCAGTCCTCA GANCCAGAAA CTATAAACT GGAAGGAAA 120
GTTTAAATAA AGANTTTATT TCCAAATTCA GCAA 155
```

(2) INFORMATION FOR SEQ ID NO: 4063:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 153
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04792

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4063:

```
GATCTAAGNA GGATTCAACA CCTTTNTTTG GTTGCTCAGT GTGTAATGAC TGAGATTTGT 60
AAATCTTTGT GAACATTCTG TACTGGTTCC CAAGAGCTAT TCATTCCCTG CTACCTGATT 120
TCAGCACAAT AAATATACTT CTGCTGTGGG AAA 153
```

(2) INFORMATION FOR SEQ ID NO: 4064:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 152
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04793

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4064:
 GATCTTAGCT GTATGGAGTA ACTATTTTCAG AAAACCCTAT AAGAAGTTCA TTTTCTTTCA 60
 AAAGTAACAG TATATTATTT GTACAGTGTA GTATACAAAC CATTATGATT TATGCTACTT 120
 AAAAAATATTA AATAGAGTG GTCTGTGTTA AA 152

(2) INFORMATION FOR SEQ ID NO: 4065:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 149
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04794
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4065:
 GATCAGAGAA GGCTGAAGAA GGTGGAGAAA CTNAGGCACA AAAAGAGGGC AGTGAAGATG 60
 CGGGCAACCT CCCTGAAGCC CAGGAGAAGA ATGAAGAAGA AGGAGAGACA GCCACAGAAG 120
 AGACGGAAGA AATAGCCATG GAGGGTGCN 149

(2) INFORMATION FOR SEQ ID NO: 4066:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 149
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04795
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4066:
 GATCAACTAT GGGTTTATAT AAATNCCAAA TTTAGTACAA CAAATTTAGG TCATCAGGTG 60
 AATACAAGTA TTTTNTTTAA CAGGNAACAT TTTATTATAN NAAAAATATT AATGATAAAC 120
 GCATATTGGT TGAAAAATAT TTTTAAACN 149

(2) INFORMATION FOR SEQ ID NO: 4067:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 148
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04796
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4067:
 GATCTCTGTG ACCCATACCC TATTTNTACA CTCCCTCCCC TTTTGAAAAT CACTAATAAA 60
 AAATTTNCTG GTTTTATGGC TCAGGGGGCA TCACAGAACC TGCCAACATG TGATGTCTGC 120
 CCTGGACACC CAGCTTTAAA ATTTCAAA 148

(2) INFORMATION FOR SEQ ID NO: 4068:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 147
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04797
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4068:
 GATCATTTTC TTGGGACCTT GAACTGTGAA TGTTTGTCC TAACCATTTA ATATTTTCTA 60
 GGTACTTGCT GCAAGTNCTT GAACTATTTT ACCAGCTTTA ACTTTGGGGC TCTTAGNTTC 120
 TNTNCTCCAG ATTCTTGTTA TNNNATN 147

(2) INFORMATION FOR SEQ ID NO: 4069:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 148
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04798
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4069:
 GATCAGAGAA GCAGATATTG ATTGAGACGG ACAAGTCAAC TATGAAGAAT TCGNACAGAT 60
 GATGACTGCA AAATGGAAGA CCTACTTTCA ACTCCTTTT CCCCCCTCTA GAAGAATCAA 120
 ATTGAATCTT TTACTIONACCT CTTGCAAA 148

(2) INFORMATION FOR SEQ ID NO: 4070:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 149
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04799
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4070:
 GATCTTTTAC ACACTGGTGA CCCTGAGAGA GGAGGGAGGA GGGAACCTGG CGGGGGTGTC 60
 TGAGGCCGCA CTGTGAGCTG GCCGGTCCAA GCCTGTGGCT GGAGCTGGGG TCTGTTTACC 120
 TAATAAAGTC CCACAGGTGC CTCATTAA 149

(2) INFORMATION FOR SEQ ID NO: 4071:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 146
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04800
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4071:

GATCCCCTTC AAGTCTCTCT GACCTTTCTT CTGCCCTCCA GCCTGGGTGA CAGAGCTAGA 60
 GTCTGTCTCA AATAATAATA ATAATACAAT AAATAAATAA ATAAATAAAT AAATAAATAA 120
 ATAAATAAAG TACGCTTTCC ATTAAA 146

(2) INFORMATION FOR SEQ ID NO: 4072:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 146
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04801

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4072:

GATCTCATAG AGCCAGTTC TTAGAGTCAA CTAAAGAGTT GATAGGAATT TACTAGGTCC 60
 AGGGAGAAAA GGCAGTGGTT GGGGTTACTG GAAATTTTGC TCATTTTCTC TAATGACTGT 120
 ATGAATAAAA GTGAACCTAC TTGAAA 146

(2) INFORMATION FOR SEQ ID NO: 4073:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 146
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04802

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4073:

GATCTGAACT TACAGACAGT TGCCAAATTT CTCTAGATAA GAAAATAAAG AATAGAGGGA 60
 ACCTAACTGG ATAACAAAAA AAAAGGAGAG AGAAAAATGC CATTGCAGTT AAAGGTTATT 120
 AAATAAAGCT TAGTGTCAAT GTCAAA 146

(2) INFORMATION FOR SEQ ID NO: 4074:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 146
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04803

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4074:

GATCAGGAGG GACCACAAGG ACAGGAGAAT TAGCAACGAG AGACTGGCTG GCACCAGTNT 60
 TGGGAAACT TCAGAGTGAG CTCCATTCAT GGTCTATTAA AAGGCCTTN TTGTCATTCA 120
 GTGATATGTG NCTGGCCCCT GAGAAA 146

(2) INFORMATION FOR SEQ ID NO: 4075:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 144
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single

- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS04804
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4075:

```
GATCAAAAAA TTATTTTAT TTATCCTAGC TTTACGTGCA TCTCACGGAA ACAGGATACA 60
CGGTGTATAT ATTATNATGC AGTTCGTTGG AACTAGAATT TCAAAAAATT TTAATAAATA 120
TGTTTAATCT GTTGCCTCTG GAAA 144
```

(2) INFORMATION FOR SEQ ID NO: 4076:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 143
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04805

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4076:

```
GATCACTGGG CCTACCTGCA CTGTGGGGCC AAGCCCTGTC TTTTCCCAA GCCCTCAAGC 60
ACACGCATGA ATGTTTCATCC CGACTTGGTA GGGGGCTTTT CACCCTTACA AGATGGCAAA 120
AGATTCACAT TGCTTTTTTT AAA 143
```

(2) INFORMATION FOR SEQ ID NO: 4077:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 143
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04806

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4077:

```
GATCTGTCAT NNTTTAGCAG TCAAGTGGGA TGGGCATTAT ATAAACAACG TTACAATGTA 60
AGGAAAATCT NTAAGNGAT GGGGAGAGAA AAAGGCAGCT GGTATAATCG GTTACTGCTG 120
CTTAGTTCTA CTTAATTTTN NNN 143
```

(2) INFORMATION FOR SEQ ID NO: 4078:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 142
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04808

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4078:

```
GATCTGCCTC TCAGGAAAAA GTACTAACTT GTTCTTTTTG TTCCTGGCTT TCATCAGTTT 60
GTGAGATTTT TCTATTTTTT TTAAATATAA TTTTATTTCT TTCAACAAAT ATAAAAATAA 120
AAACAACTTT GGNNCANTGA AA 142
```

(2) INFORMATION FOR SEQ ID NO: 4079:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 142
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04809

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4079:

```
GATCCTGGCT AACCTNGCC TATTTAGATT CCTTCCTCTC ACCTGGACCT TCCCATTTC 60
ATCATGCAGA TGGTTTCTTT TTGTAAAGAG TTCCGTTTGC CTTTCAATTT TTAGAGAAAA 120
TAAAGACTGC ATTCATCTCA AA 142
```

(2) INFORMATION FOR SEQ ID NO: 4080:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 141
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04810

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4080:

```
GATCTTCTTC TCTCTTGTC ACCTATTAAT TGTTTACAAT ATTTGTTACA TCTTATGCAA 60
AATACTTGAN TGGGCCATGG TGCCTTTTTT CTTGTNAGT ATTTAATTAA AAATGAATTG 120
TTTGTCAATT GCAATGTAA A 141
```

(2) INFORMATION FOR SEQ ID NO: 4081:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 140
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04811

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4081:

```
GATCCCGTTT TCCCATGAC AATGTTGTAG TGTCCCCAC CCCCACCCC CAGGCCTTGG 60
TGCCTCTTGT ATCCCTAGTG CTCCATAGTT TGGCATTGTC ACGGTTTCGA AGTCATTAAA 120
CTGGTTAGAC GTGTCTCAA 140
```

(2) INFORMATION FOR SEQ ID NO: 4082:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 138
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04812

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4082:
 GATCTGTGCA GCAAACCACC ATGGCACAGG TTTATCTATG GAACAAACCT GCACATCCTG 60
 CACGTGTACC CCTGAAATTA AAGTAAAAAT TGGAAATAAA ACATTTAAAA AGAAAAGAAA 120
 ACAACAACA ACAACAAA 138

(2) INFORMATION FOR SEQ ID NO: 4083:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 138
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04813
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4083:
 GATCTATCAA AGGAAAAGGA AACTGAGACC GAAACTTAG GGTCTAAGTT GTTCTAAACC 60
 CAGGGTTCTC AAATGTGTTG TACAAAAAGT TTCATGTAAT AAAATTAAGC AAATAAAACA 120
 AATGAATAGA GGTCCAAA 138

(2) INFORMATION FOR SEQ ID NO: 4084:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 137
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04814
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4084:
 GATCACAATG TCATTTCCTA ATACAAGGCA GGATATGTGG GAAGAATATG TACAATTATT 60
 TGATTAAAAT TATTTCACAC TGACCTAAAC TTTCAGTGAT TTGTGGGAAA AATAAATAAA 120
 TGTCTACAC CAAGAAA 137

(2) INFORMATION FOR SEQ ID NO: 4085:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 137
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04815
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4085:
 GATCCACTGC CTCAGCCTCC CAAAGTGCTG GGATTATAGA CATTTCATGAT GAATTCTTAT 60
 TTTANNMNTA ATATAAGCA AATACAATTA TTGTTAGATA ACAATGCACA AAATAAAATT 120
 CAAGGGTGAA AAATAAA 137

(2) INFORMATION FOR SEQ ID NO: 4086:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 136
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04816
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4086:
 GATCCATGCC TGTAGTCCAA GCTACTCAGG AGTCCGAGGC ACAAGAATTG CTTGAACCTG 60
 GGAGGCAGAG GTCACAGTGA ACCATGTTCT GTCAGTGCAC TACATCCTGG GTGACAGAGC 120
 GAGACTCCAT CTCAAA 136

(2) INFORMATION FOR SEQ ID NO: 4087:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 136
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04817
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4087:
 GATCTGGTCC CTGTAGCACA GAGGTCCGAA GAACCGCCTT CAGAAAGAGG AGGCATATTT 60
 GGAAGTNATG GGAAAGACTT TNTGGACAAG GATGGAGAAC ACTTTGGAAA ATTGCATTGT 120
 GCCAAGAGAC AACAA 136

(2) INFORMATION FOR SEQ ID NO: 4088:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 135
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04818
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4088:
 GATCTACAAC ACCTGCCAGT GACCCCTGCC CAAGGCCTAC CCCAGTTCCT AGCACTGCCC 60
 CACATGCATG TCTGCCTATG CACTGAAGAG CTCTTGGCCC GGCAGGCCAC CAATAAACCA 120
 GTGTGAACCC CAAA 135

(2) INFORMATION FOR SEQ ID NO: 4089:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 133
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04819
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4089:

GATCTGCTGA CAGTGAGTAG TATTTTGTTC TAGGATGTTG TGACTTAGCA AAAATAATAC 60
 AGATGTCTTC CCCCCTTTTG TAGCTTTGAC AATTTGAATT AGATTTCAA TAAATCTGA 120
 ACAGAAACT AAA 133

(2) INFORMATION FOR SEQ ID NO: 4090:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 132
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04820

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4090:

GATCCTTACA TATGCCATCC TTCTGTGTCA TTTTGTGGCT GTTCTGTGTT TTTCTTCCTA 60
 GTTATTTATT ATTGTTAATA ACTTACTTTT TCTTACATTC TGTTGTAAAT AAAATACAAA 120
 GCAATCTTCA AA 132

(2) INFORMATION FOR SEQ ID NO: 4091:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 132
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04821

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4091:

GATCAAACAG AGGCATGCTA AGATATATTG GGGCTTGAAG CAAAGGGAAA ACTATTTGTT 60
 GCTATATGTT TGTAGGGATT TTTTGCCAGT TTTAAAAATA CATGTATCAT AAAGTTTACT 120
 ATCTCAGCCA AA 132

(2) INFORMATION FOR SEQ ID NO: 4092:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 132
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04822

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4092:

GATCAGTGGG GGAGGGCACC TCAGCAACCT CTGAGTGTGG ACAATAGCTG CTTTCTTCTC 60
 TATCCAAGAG CACCAGGCTG TGCTTGGNTC CTTGCTCTCA GAGTCTATAA ATAAAAGAAT 120
 ATAAATGATTA AA 132

(2) INFORMATION FOR SEQ ID NO: 4093:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 130
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single

- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS04823
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4093:

```
GATCGGGGGT GGGATGGGAT GGAGTGAGCC CCATCCAGTT AGTTGGACTA GTTTTAAATA 60
AAGGTTTTTC GGTGTGTGTT TTTTGAACC ATACTGTTTA GTAAAATAAA TACAATGAAT 120
GTTGAGTAAA                                     130
```

(2) INFORMATION FOR SEQ ID NO: 4094:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 128
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04824

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4094:

```
GATCACAGAG GGAGGAGCTC TGAGAACAGT CTCCTTCAAC AGCTCGGCCA AGCAGAACTG 60
CTGTACCTCT GACCACTTGT GTTAGGAAAA CTATCGGCTC CCTGTATAAT AAATCAAGCC 120
AGGTCAAA                                     128
```

(2) INFORMATION FOR SEQ ID NO: 4095:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 126
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04826

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4095:

```
GATCTTTGCC TNTAAGCTTG AATATTTGGC TTAAANTTTG TNCATATGAA TACTGTAAAA 60
GGTATATTTN ACTACATTTT GAAAGGAAAA AGGTAGTCCT GCTAAAATTG ACATTTAGGG 120
ATANNN                                     126
```

(2) INFORMATION FOR SEQ ID NO: 4096:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 124
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04827

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4096:

```
GATCTGAAAT TCTGAGATAT CAATCTAGGA ATTTCAAAAG AAACAGATTA TAGAATTTAA 60
AACTTAACAC CNGTCTTGTA TTAAGAGAAG TCAACATTTT AAATAAAACC TTGTTCTTAC 120
CAAA                                     124
```

(2) INFORMATION FOR SEQ ID NO: 4097:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 123
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04828

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4097:

GATCTCAGAA CTGTGCCAAG CAGACACTGG GACAAAGGGA GAATATCTTG CTCCCCTCCT 60
 GAGTCAGCCT GGTGTTGCC TTTATTCCCC TTATGTGCAT ATGATTAAAG AGTTATTTTT 120
 AAA 123

(2) INFORMATION FOR SEQ ID NO: 4098:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 122
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04829

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4098:

GATCCTACAA ACAGACATTT TCCACTCGTG TTTCCATAGT TGTAAAGTGT ATCAGATGTG 60
 TTGGGCATGT GAATCTCAA GTGCCTGTNT AATAAATAAA GTATCTTTAT TTCATTCATA 120
 AA 122

(2) INFORMATION FOR SEQ ID NO: 4099:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 121
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04830

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4099:

GATCTTCTCG CCTCAGCCTC CTGAGTAGCT GGAGCTACAG GTGTGAGCTA CCCAGCATGG 60
 CTCATTGAG ATTTCTGAGT AGAGAAGTAA CATGATTAAA CTTGGGTATT GAGATTATAA 120
 A 121

(2) INFORMATION FOR SEQ ID NO: 4100:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 121
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04831

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4100:

GATCAATCTC TCCCTCAGCT TTCTTTCCTA CTTTTCGAGC TTTGCTGGCT TTAACTGCT 60
 TCATTCTTCT GCTTCATTGG TATCCTTTTT TCTTTTGAAA TAAAAACATG AAATACTTAA 120
 A 121

(2) INFORMATION FOR SEQ ID NO: 4101:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 121
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04832

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4101:

GATCGACTGA GTCCAGAAAG TCAAGGCTGC AGAGAGCCAC ATTCACTGCA CTCCAGCATN 60
 GNTGNCAGAG GNAGACCCTG TCTCAAAAAA AAAAGAAAAA AGAAAAAGTG ACAATGNCAA 120
 A 121

(2) INFORMATION FOR SEQ ID NO: 4102:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 119
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04833

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4102:

GATCGGTAGG GGGCCTGCTC CTCGGACTCT GGTTACCTCT AAGGCTGGGA AAGGCCTGGT 60
 TGCCCCACTGC NTCNTCCCT GCCCCTCCTT TNATGTCCAT AAAGTGGCGT GAAGTGAAA 119

(2) INFORMATION FOR SEQ ID NO: 4103:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 116
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04834

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4103:

GATCACCTT AAATCNGNGT TGGGAAAATA TCAATTAAGT GGACTCTCTG GTTTGAATTC 60
 TCAATATGTA TCTTAATATG AAATAGCTCA TTAAACTTC ATGTGTAAGT ATTAAA 116

(2) INFORMATION FOR SEQ ID NO: 4104:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 115
 (B) TYPE: nucleic acid

(C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04835
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4104:
 GATCTGGGTG GTAGTTACTG GGTGTGTTCT CTTTGTGATA CTCTCTCGAG ATGTACACTT 60
 AGGATTTGCA ATCTTTTCTG TAAAATATTT CAATAAAGA CATTATTTT TTAAA 115

(2) INFORMATION FOR SEQ ID NO: 4105:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 115
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04836
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4105:
 GATCTTAGCT AAATCTCGGT AGATGTCATT ACAACCTNGA AAATAAATCA CCCTAAGTGA 60
 CACAAATTGA AGCATGTACA AATTATACAT AATAAAGTGT TTTTAATAAT TGAAA 115

(2) INFORMATION FOR SEQ ID NO: 4106:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 115
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04837
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4106:
 GATCCTNCAC CTCTTGGNAA TTAAAATTGT TGGTCACTGG GGAAAGCCTG AGTTTGCAAC 60
 CAGTTGTAGG GTTCTGTGTTG TGTTTTTTTTT TTTTTTTTAA AAAAAANTN NAATN 115

(2) INFORMATION FOR SEQ ID NO: 4107:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 115
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04838
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4107:
 GATCAGACAA GGAATGAAGC AATGNCTGTG GGCTGGGAAA CTGTACCTAC CTCTCTNCCC 60
 ACTGCAAATN NCTGGGATAG ACCAAAAGTG AATTTAATTA TGTNTTGGCT GAAGN 115

(2) INFORMATION FOR SEQ ID NO: 4108:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 115
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04839

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4108:
 GATCCCAACT TGAAACAACA GCCAGTGCCT GTGGTAACTT AANNTNTTGT CAAATACTTT 60
 TATTGATTGG TTTATATGCC ATTNTTGTTA TAGAAGAATA TGCCTTTTAA AAANN 115

(2) INFORMATION FOR SEQ ID NO: 4109:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 112
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04840

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4109:
 GATCAGCTCC GTGGGACTGA TATTGGTCCA CANCANAACA GGCAGTGCCT CCTTCCCTCT 60
 GGGGAATGCA AAAGAAANCA TGGATTAAGN GAGAAGGGAG ACTCTCAGCN TN 112

(2) INFORMATION FOR SEQ ID NO: 4110:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 111
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04841

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4110:
 GATCGCCCAA TAAACATTCC CTTGGATGTA GTCTGAGGCC CCTTAACTCA TCTGTTATCC 60
 TGCTAGCTGT AGAAATGTAT CCTGATAAAC ATTAAACACT GTAATCTTAA A 111

(2) INFORMATION FOR SEQ ID NO: 4111:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 111
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04842

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4111:
 GATCGGCATA TGCATATCAA AAACAGCTCC CAGCTCTGTA AGGCATTAGA GTGAAAGCAN 60
 ANAATTTTTT AATGAAACAT TTATTTGCCT TCTTTTACTG CAGTGCTNNN N 111

(2) INFORMATION FOR SEQ ID NO: 4112:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 111
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04843

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4112:

GATCATACTN CTTTATCTAG AGNTTTGTCT CAGCTTGCAG AGNTTGAGGA GAAGATAGAC 60
 CAGTTACATC AAGAACAAGC TTTTCCTGAC TTAAATATGT TTNCNGAACT N 111

(2) INFORMATION FOR SEQ ID NO: 4113:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 110
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04844

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4113:

GATCACAGTG CAGATAATTA CCTCACACCT GTTAGGATGG CTTTCACCAA AAAGACAAAA 60
 GATACGTGTA GGCAAGGATG TGGAGGAAAG AGAACTCTTG TATACGTAAA 110

(2) INFORMATION FOR SEQ ID NO: 4114:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 110
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04845

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4114:

GATCTTAGTC CGTTTTTTTT TTATATATTG TAACGTAAA TGAAAAAAGA ACCCCCCTNN 60
 TGTATTATAG TCATGCGGTC TTATGTATGA TAAACAGTTG AATAATTAAA 110

(2) INFORMATION FOR SEQ ID NO: 4115:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 110
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04846

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4115:

GATCTGGGAC TTCCAGAAAA CAGAACTNTN AAAANACAAG TTTCTTTTGT TTAAACCACC 60

CAATCTNAAG TATTTTTTNA TGGCAGTCCT GGGCAGACTA ATACAATATN

110

(2) INFORMATION FOR SEQ ID NO: 4116:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 109
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04847

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4116:

GATCTATCAT AAAAAGCAAT GTCTTCTCTG GAATGGGGCT TCAGTTTCCA CATTTACAAT 60
TAGTACATAT TACAATTAGT GATATGAATA AAGGCTGTTA TCCTACAAA 109

(2) INFORMATION FOR SEQ ID NO: 4117:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 109
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04848

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4117:

GATCAAAACA GGTGACAGTG AAGTGGTTTC GGCCCTGCCA ATCTGATATC GTGTATGTAT 60
GAGAGTGGTC AGCATTTTAC CACTGGTAAC AAGTTCCTTN CTGTNCAA 109

(2) INFORMATION FOR SEQ ID NO: 4118:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 109
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04850

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4118:

GATCTATATA ATTTATGTAT CACCTTCATT GTAAATTTAG CAGGAAATGC ATCACAATTA 60
TNATTTTTTT TTTTGNACC AGTGAAACAA TAAAGATGCT ATTACCAA 109

(2) INFORMATION FOR SEQ ID NO: 4119:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 107
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04851

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4119:
 GATCATGTTG CTGGCTTTTA TAAACTCTAA GCGAAGGAGG AGCACTGCCT CAGCCTTTGC 60
 ACATGGTAAT GAAGCACTGT TTTTAAATAA AAGAGAGAAA CACCAAA 107

(2) INFORMATION FOR SEQ ID NO: 4120:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 118
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04852

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4120:
 GATCCGTGAG GCGGTGANTT GGACTGGACC CACTGCTGAT TCCCTGCACC TAGCACAGTG 60
 CTTGCCACAA AGTGGGCTCT CAATAAATAT TATTTGTCCA AGGAAGGAAT GAATGAAA 118

(2) INFORMATION FOR SEQ ID NO: 4121:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 108
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04853

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4121:
 GATCGTCTGA GCCCCNCGGG CACTGGGTGG GGCAGAGCAC GAGTTATTTA AAACAGTTAC 60
 ACTGCAGGTG TTCGCCCAAT AAAGGTGGAC TGACATTCCC TCTTCAA 108

(2) INFORMATION FOR SEQ ID NO: 4122:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 107
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04854

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4122:
 GATCTTTTAT ACTCAGNTTN AAACACTTTA CTTGGGTTTA CCAAGCCTCA ACTGGCATAC 60
 CATAAACANG CCACANGGAC CGTTCCTGCA GGCCCAACCC ACAGGGN 107

(2) INFORMATION FOR SEQ ID NO: 4123:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 107
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04855

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4123:

GATCCGGAAC CCACTTTTTT ATCACTCCC CATCGTCGTT TGGCCNTTCC ATC NNTCTTT 60
 NTCTTTCCCT CTGCCATCCG TGACACTGAT AGTTNGTCAT ATAAATN 107

(2) INFORMATION FOR SEQ ID NO: 4124:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 106
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04856

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4124:

GATCTCCAAT CTCCTCGGTT GCAACACCTG AATAAAGCCT TCTTCCCTCA CAATACTTGN 60
 NNNCTCAGTG ATTGGCTTAC TGTGCAGTGA GCAACCTAGA CCAANN 106

(2) INFORMATION FOR SEQ ID NO: 4125:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 102
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04859

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4125:

GATCAAAATC ACGTTTGTAG TATCATATCA AAAATTCTAA CCTGTTTACA TTGTTTNNAT 60
 GTTCATGTTT CTATGTTATT AAAATATTAT TTTGTACTTA AA 102

(2) INFORMATION FOR SEQ ID NO: 4126:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 101
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04860

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4126:

GATCTACGGC AATGTGAATC ATTCAGATGT TTACAATAAA AAACACCACA TGAGTAAATG 60
 AATTCATAA TGTTAATGTT AAACCTCATG GAAAGNNNNN N 101

(2) INFORMATION FOR SEQ ID NO: 4127:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 100
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04861

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4127:

GATCCCCCT CAGGACAAAT CTACTCCAGC CACGATGAGA AGTGGGTGAG CCAGGGTCTG 60
 AGTTTCACAT TTGAACCAA TAAATGCTG TCAAGAGAAA 100

(2) INFORMATION FOR SEQ ID NO: 4128:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 97
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04862

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4128:

GATCATGCCA TTGCACTGCA CCTGGGCAAC AAGAGTGAAA CTCCGTCTTA AAAAATATAA 60
 GAAATAAAAA AATAAAACC TGTCCCAGA CTGGAAA 97

(2) INFORMATION FOR SEQ ID NO: 4129:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 97
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04863

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4129:

GATCCTGAGC TAGGAGAGTA CATTTTGCAG ACCTTTGGTT TCCATATTAA GAAATTCAGA 60
 TTTTNATGTA CAATAAAGAA GTTCTGGAAT TCTCAA 97

(2) INFORMATION FOR SEQ ID NO: 4130:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 96
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04864

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4130:

GATCTCTNTN CAGCCCTAAA GTCCTTGGT TCTGTAATTC CACCAATAGC CCATTTCAAA 60
 AATAATTCTA CAGTAATCAG TGGGACTCCT GTTTTN 96

(2) INFORMATION FOR SEQ ID NO: 4131:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 95
 (B) TYPE: nucleic acid

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      (C) STRANDNESS: single
      (D) TOPOLOGY: linear
(vii) IMMEDIATE SOURCE:
      (B) CLONE: HUMGS04865
      (ix) FEATURE:
      (D) OTHER INFORMATION: "N"=unidentified base
      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4131:
GATCACACCA CTGCACTCAA GCCTTGGCAT CAGAGTGAGA CTCTGTCTCA GTAAAAAAAA 60
AATAAATAAA TAAAAATGTT TAATTAACCA TGAAA 95

(2) INFORMATION FOR SEQ ID NO: 4132:
      (i) SEQUENCE CHARACTERISTICS:
      (A) LENGTH: 95
      (B) TYPE: nucleic acid
      (C) STRANDNESS: single
      (D) TOPOLOGY: linear
(vii) IMMEDIATE SOURCE:
      (B) CLONE: HUMGS04866
      (ix) FEATURE:
      (D) OTHER INFORMATION: "N"=unidentified base
      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4132:
GATCGTAGGG CATCAGAAAA ACAAAAAGAA ATAGAGAGAG TAAAAGAGAA GCAACAGAAA 60
GAACTCAATA AACAAAAACA GATTGAAAAG GTAAA 95

(2) INFORMATION FOR SEQ ID NO: 4133:
      (i) SEQUENCE CHARACTERISTICS:
      (A) LENGTH: 98
      (B) TYPE: nucleic acid
      (C) STRANDNESS: single
      (D) TOPOLOGY: linear
(vii) IMMEDIATE SOURCE:
      (B) CLONE: HUMGS04867
      (ix) FEATURE:
      (D) OTHER INFORMATION: "N"=unidentified base
      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4133:
GATCTTTATT GTTCCTCACC CCATTTTCCT CTTGTGTAT GTACTTCCCC CACCCCCCTT 60
TTTTTAAGTA AAATGTAAAT TCAATCTGCT CTAAGAAA 98

(2) INFORMATION FOR SEQ ID NO: 4134:
      (i) SEQUENCE CHARACTERISTICS:
      (A) LENGTH: 94
      (B) TYPE: nucleic acid
      (C) STRANDNESS: single
      (D) TOPOLOGY: linear
(vii) IMMEDIATE SOURCE:
      (B) CLONE: HUMGS04868
      (ix) FEATURE:
      (D) OTHER INFORMATION: "N"=unidentified base
      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4134:
GATCTAATAA GTATTGGAAT GCTTCCTATT TGCTGATAGA AGTACCAAAT AGTATTATTG 60
AAGTCTAACA AAGACTTTTT GTTGAGAACA CAAA 94

(2) INFORMATION FOR SEQ ID NO: 4135:
      (i) SEQUENCE CHARACTERISTICS:

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(A) LENGTH: 94
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04869
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4135:
 GATCGAGGTA AGAGGGACTT TNTTAAAGGC CTAGTCTATG GGATGGGGCG GCGGAGGGAA 60
 TTTTTTGAGA AATAAAATGA AGCTGCAGTG TAAA 94

(2) INFORMATION FOR SEQ ID NO: 4136:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 92
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04870
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4136:
 GATCACACCG CAGACATTTA GATTTTTATA CCAAGGCAC TTAAAAAAA TGTTTTATAA 60
 ATAGAGAATA AATTGAATTC TTGTTCCATA AA 92

(2) INFORMATION FOR SEQ ID NO: 4137:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 91
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04872
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4137:
 GATCTTTACT GATGCACTCA TGACAAGTAC CCAATGTATT TTAGCTATTT TAGTAGTATT 60
 TGTTCATAA ATACGCAAGC TGTAAGGTAA A 91

(2) INFORMATION FOR SEQ ID NO: 4138:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 91
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04873
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4138:
 GATCTGCTTT TCTGCATGTT TGTCTGTGTG TCTGCGTTGT GTGTGATTTT CATGGAAAAA 60
 TAAAATGCAA ATGCACTCAT CACAACTAA A 91

(2) INFORMATION FOR SEQ ID NO: 4139:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 90
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04874

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4139:

GATCAAAAAA AATAAATCAC AATGGTATTT AGAAAATATT TTCTACTGAA GGCTAACAAA 60
ACACTACATA TTAAATTAT AAAATGCAAA 90

(2) INFORMATION FOR SEQ ID NO: 4140:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 90
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04875

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4140:

GATCTTTTGA TGTGCACTAA TGCCATTATT GGTAATGCCG GTTATTGGTG AATACAGCAT 60
AGTTAAATAA ACTGTTACAG TAAATCTAAA 90

(2) INFORMATION FOR SEQ ID NO: 4141:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 89
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04877

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4141:

GATCTAGGGC AAAGTTGTCC AACTGTTGGC CCATGGAACA GCTTTGAATG CAGCCCAACA 60
CAAATCTATA AATTNCTTA AACATTAAA 89

(2) INFORMATION FOR SEQ ID NO: 4142:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 88
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04878

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4142:

GATCAGTCTC ATGGGCCATC TCTTCCTCAG ATGTAAATAA TATCTGGTTA AGTGTTATAT 60

GGAATAAAGT GGACATTTTA AACTAAA

88

(2) INFORMATION FOR SEQ ID NO: 4143:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 88
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04879

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4143:

GATCTCAGTG ATGTTTGAAC CTTCTGTGTA ACTTTTATT AAGTCTTGT ATCTCTCGAC 60
 TGATTAATAA AGAAGAGAAA CACGTAAA 88

(2) INFORMATION FOR SEQ ID NO: 4144:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 87
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04881

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4144:

GATCTTTATT GGTGACCTTT TGTAAGACAT TAGTTTGAGG TACTACCTAT GTACTTGAAA 60
 ATAATAAAGT GGCATTCTTT TATGAAA 87

(2) INFORMATION FOR SEQ ID NO: 4145:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 86
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04882

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4145:

GATCCACTTT GTACTCCTAC CAGTAGGAAC GGTCTTCTAA CAGAGAAGAT TATAGCAAAA 60
 AATAAAATCT CTTCTTAATT CCCAAA 86

(2) INFORMATION FOR SEQ ID NO: 4146:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 86
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04883

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4146:
 GATCCAAAGT CCAGCTCTCT CACTGAAGCC TTATCTTTCG GAAAGCTTCC AACAGTAACT 60
 CAGGAATTNA GCTTACTTGC TTAA 86

(2) INFORMATION FOR SEQ ID NO: 4147:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 85
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04884

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4147:
 GATCTAAAGA AGAAGGTTCA GTTTTCAAAC AGAATTTAGA GAAAATATAA AGAAATAATT 60
 TCTTGTCTCA AAAGGCCAAA GTAA 85

(2) INFORMATION FOR SEQ ID NO: 4148:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 84
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04885

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4148:
 GATCCAGCTG TGCCTAAAGC CTGCCCTACC TCCGGACTTT AAAGTTTTGT GAGCCAATAA 60
 AGTCCCTTTC TTGTTTAAGA TAA 84

(2) INFORMATION FOR SEQ ID NO: 4149:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 84
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04886

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4149:
 GATCTGAAAA GGCATTAATT TATGTACTAA TTCTATAAAC ATGTATTAAT AATTGCAGTA 60
 TTATTAAATA CAGATGGACT CAAA 84

(2) INFORMATION FOR SEQ ID NO: 4150:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 83
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04887

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4150:

GATCAGGCCC CCAACTCTC CAGAACAGGC TACAAACATG CAAATTAGAA TTCTTTTAAT 60
 ATAAAAAATA GTACTAAAAT AAA 83

(2) INFORMATION FOR SEQ ID NO: 4151:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 83
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04888

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4151:

GATCAGAGGG NAGTACAGAA NCCCTGAACT AAAGCNTTAA GTACATACCA TACAGCAAAT 60
 AAATGGTAGC AAAACATTCT AAA 83

(2) INFORMATION FOR SEQ ID NO: 4152:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 83
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04889

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4152:

GATCTAAAT TTGTAATATT TTTGTCATGA ACTGTACTAC TCCTAATTAT TGTAATGTAA 60
 TAAAAATAGT TACAGTNACT AAA 83

(2) INFORMATION FOR SEQ ID NO: 4153:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 81
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04890

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4153:

GATCACATGG TTCACTACCA AATNACCCTC AAATAAGCCA GATGAAAATT TGAAGAAAAA 60
 GGTCACCCAG TTCTCTGGAA A 81

(2) INFORMATION FOR SEQ ID NO: 4154:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 81
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04891

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4154:
 GATCAGAGCG TAGTTTTAAN TGTATTTTGT ATACACTTGT GAAATATTTT ATAGAAATAA 60
 AAATTTTAC TTAGGAGCAA A 81

(2) INFORMATION FOR SEQ ID NO: 4155:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 81
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04892

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4155:
 GATCCTTCCT CCCACCCTAN GCCTTCCTTT CCTCTTTCCT CCTCACTCTC CCCGTCATGC 60
 TCCCTCTGCC CNGNCCTCAA A 81

(2) INFORMATION FOR SEQ ID NO: 4156:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 80
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04893

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4156:
 GATCCAAANT AGTAACNTTT TNTNATGAAC TGTACTACTC CTAATTATTG TAATGTAATA 60
 AAAATAGTTA CAGTGACAAA 80

(2) INFORMATION FOR SEQ ID NO: 4157:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 79
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04894

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4157:
 GATCATTAGT CAATTGCTTT AATTATAAGC CCTGTTTTTT TTAAATCTA AAAACTAATA 60
 AACATCTATA AGAATTAAA 79

(2) INFORMATION FOR SEQ ID NO: 4158:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 79
 (B) TYPE: nucleic acid

(C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04895
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4158:
 GATCNACTGT CAAAAAGAAG GGTTCAGTA AAATAAAATG AGAGCAATTA TATATATAAA 60
 TATATATCAT ACACAGAAA 79

(2) INFORMATION FOR SEQ ID NO: 4159:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 76
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04897
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4159:
 GATCACCTGA ATTCTGGAGG TTGAGGCTGC ACCACTACAT TCCAGCCTGG GAGATAGAGT 60
 GAGAGCCTGT CTAAAA 76

(2) INFORMATION FOR SEQ ID NO: 4160:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 76
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04898
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4160:
 GATCCCAAAT NTTCCACAA GCTTTATTCC AAAAATAATT TTATTTAATA GGTATTAAAT 60
 AATGTATAGA AGGAAA 76

(2) INFORMATION FOR SEQ ID NO: 4161:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 74
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04900
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4161:
 GATCTTCCTG TTTCAGTCCC CAAGGTGTTG GGATTATGGG CATGAACTGC TGCACCCAGC 60
 CCTTTATACT CAAA 74

(2) INFORMATION FOR SEQ ID NO: 4162:
 (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 73
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04902
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4162:
 GATCACTGGT ATGTAGATAA TAAATGTGA AAATAAAAAT TTAAAAATAA AACAAAAATT 60
 ATGTGATAAT AAA 73

(2) INFORMATION FOR SEQ ID NO: 4163:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 73
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04903
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4163:
 GATCGTGCAA CTGCACTCCG GCTTGGGCTA CAGAGTGAGA CTCCATCAGA AAGAAAAGAA 60
 GAGAGAGATG AAA 73

(2) INFORMATION FOR SEQ ID NO: 4164:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 74
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04904
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4164:
 GATCAGCATG TAAAGTGTCT GGCCTGTAGT AGGCTCTTAA TAAACACTGG CTGAATATGA 60
 ATTGGAATGA TAAA 74

(2) INFORMATION FOR SEQ ID NO: 4165:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 72
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04905
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4165:
 GATCTCAACT CGTGGCACTA ACTTGAAAA GGGTTGATTT AAAATAAAAG GGAAGACTAT 60
 TTTACAAGCA AA 72

(2) INFORMATION FOR SEQ ID NO: 4166:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 70
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04907

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4166:

GATCCTAAAC AGATGCATTG TTGCTTTTCT GTGCTGTCTC TGCAGATTAA AACATAATGA 60
TTACACTAAA 70

(2) INFORMATION FOR SEQ ID NO: 4167:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 135
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04908

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4167:

GATCTATTAT GCCTTTTAC AAAAAAATG GCTGTAAATN ATTGTAAATA TTAAAGGAAC 60
TTTCCTTACT TCCTTCCCTT TCTCAGGCTT TTTTGTACTG TTCCTTTCCC TACCAACTCA 120
GGCCTTCTTA TTAA 135

(2) INFORMATION FOR SEQ ID NO: 4168:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 69
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04909

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4168:

GATCTCCCTG GAGGTTTCAT AGCAAGGTTT GACTTGATGA ATTAATTAAT AAAGCTAAAT 60
ATCCTGAAA 69

(2) INFORMATION FOR SEQ ID NO: 4169:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 67
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04910

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4169:

GATCACCCAC GGGGAGGAGA AGGAGGAGTG AGACCCAGCC GGGTCAATAA ACCTGGACGC 60
TTGGA AAA 67

(2) INFORMATION FOR SEQ ID NO: 4170:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 65
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04912

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4170:

GATCTGCTTA TAAATAAACT TAACAAATAC ACTATGGAGA TTAAAAACAA AATACCACCC 60
ACAAA 65

(2) INFORMATION FOR SEQ ID NO: 4171:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 64
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04913

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4171:

GATCTGTTTC TCTAGAAAAA AAGTCCATCT CTGGCTTTAA TAAATTATG CATCAGAAAT 60
CAAA 64

(2) INFORMATION FOR SEQ ID NO: 4172:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 76
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04914

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4172:

GATCTCATGC TNAGCAGAGC AAAAATTGTA AAATATTTTG ATTAAAAATC TAGGGACCTT 60
TATGTCCTAT TTGAAA 76

(2) INFORMATION FOR SEQ ID NO: 4173:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 63
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04915

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4173:

GATCAGGAAG TGGCTTTGTG TCTTCCACA TGTATGTATA AATAAAGTGT TCTTTTAAGC 60
AAA 63

(2) INFORMATION FOR SEQ ID NO: 4174:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 63
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04916

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4174:

GATCCTCATT TTTTCCCAT TGTAAAATTGG GCTAATAAAA GATGCTACCT ACTGACTATT 60
AAA 63

(2) INFORMATION FOR SEQ ID NO: 4175:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 62
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04917

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4175:

GATCAGCTA CTGCACTCCA GCACTCCAGC GCAGGCAACA GAGGGAGACT CTTTGTCTCA 60
AA 62

(2) INFORMATION FOR SEQ ID NO: 4176:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 62
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04918

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4176:

GATCCTGAAT TTCCAGCCA ACAGAACCAA GTGCTAAATA AACTCTTTT TAATAAGTTA 60
AA 62

(2) INFORMATION FOR SEQ ID NO: 4177:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 62
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04919

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4177:

GATCAAACT CTGTTCTCAA AAATAAATAA AAAATAAAAA ACAAACAAC AACAACAACA 60
AA 62

(2) INFORMATION FOR SEQ ID NO: 4178:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 61

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04920

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4178:

GATCAGCCA CTGCATTCCA GCCTGGGAGA CAGAGTGAGA AATAAATAAC TGTAATGTAA 60
A 61

(2) INFORMATION FOR SEQ ID NO: 4179:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 60

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04921

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4179:

GATCCAAGCA AACTACTTTA AGCAAATATT TGTAAAATTA AAAACGGAGG ACCGCTCAAA 60

(2) INFORMATION FOR SEQ ID NO: 4180:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 60

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04922

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4180:

GATCTAACAG TTCTCCAATA AAATAGTTCT CATTCCAGAG AGCAGATGAA TATATTTAAA 60

(2) INFORMATION FOR SEQ ID NO: 4181:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 59

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04923
(ix) FEATURE:
(D) OTHER INFORMATION: "N"=unidentified base
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4181:
GATCTATGAC TGTACTACAC TCCAGCCTGG TCAACAAAGC AAGACCATAT CTCTTTAAA 59

(2) INFORMATION FOR SEQ ID NO: 4182:
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 59
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear
(vii) IMMEDIATE SOURCE:
(B) CLONE: HUMGS04924
(ix) FEATURE:
(D) OTHER INFORMATION: "N"=unidentified base
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4182:
GATCCAAGTA TTTNATCTGT GTTGTCTCTC TAAACCCAAA TAAATGTGTA AATGTGAAA 59

(2) INFORMATION FOR SEQ ID NO: 4183:
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 59
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear
(vii) IMMEDIATE SOURCE:
(B) CLONE: HUMGS04925
(ix) FEATURE:
(D) OTHER INFORMATION: "N"=unidentified base
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4183:
GATCCAATAC ACACATANCT TACAACATC ACAAAATTCCT ATTAAATATT AAAAGTAAA 59

(2) INFORMATION FOR SEQ ID NO: 4184:
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 59
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear
(vii) IMMEDIATE SOURCE:
(B) CLONE: HUMGS04926
(ix) FEATURE:
(D) OTHER INFORMATION: "N"=unidentified base
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4184:
GATCTCAAAN NGAAATCTTA TACCAAGTAC AACTGTATTA GAATATATCT GTTCTTAAA 59

(2) INFORMATION FOR SEQ ID NO: 4185:
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 57
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear
(vii) IMMEDIATE SOURCE:
(B) CLONE: HUMGS04927
(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4185:
GATCTCATAT TAATATTTTA ATATTTCTTT TCAAAATAAA ACAGAAAAGC AAGTAAA 57
- (2) INFORMATION FOR SEQ ID NO: 4186:
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 57
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear
(vii) IMMEDIATE SOURCE:
(B) CLONE: HUMGS04928
(ix) FEATURE:
(D) OTHER INFORMATION: "N"=unidentified base
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4186:
GATCTGTGTG TTCTTTCAAA GAGAAGTTAT GTCTAATTAA AATGTGTAAC GGACAAA 57
- (2) INFORMATION FOR SEQ ID NO: 4187:
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 57
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear
(vii) IMMEDIATE SOURCE:
(B) CLONE: HUMGS04929
(ix) FEATURE:
(D) OTHER INFORMATION: "N"=unidentified base
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4187:
GATCCGNGAG AGAACGACCA CAATTTAAAC ACATCAATAA ATACTTTAAC TTCCAAA 57
- (2) INFORMATION FOR SEQ ID NO: 4188:
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 56
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear
(vii) IMMEDIATE SOURCE:
(B) CLONE: HUMGS04930
(ix) FEATURE:
(D) OTHER INFORMATION: "N"=unidentified base
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4188:
GATCAAGAAG GACTACCTGT CATGTGAGAC CATCACTAAG AAACCATTG CTGAAA 56
- (2) INFORMATION FOR SEQ ID NO: 4189:
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 52
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear
(vii) IMMEDIATE SOURCE:
(B) CLONE: HUMGS04940
(ix) FEATURE:
(D) OTHER INFORMATION: "N"=unidentified base
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4189:

GATCCCACTT CGGTCTGTAA ATTCCCTCAA TAAATCACCC AATATTGACA AA

52

(2) INFORMATION FOR SEQ ID NO: 4190:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 51
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04945

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4190:

GATCCCCAAA GCTTAAATA TCGACTATTT AGAGTGAGAC TCCATCACAA A

51

(2) INFORMATION FOR SEQ ID NO: 4191:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 51
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04947

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4191:

GATCAGCCAN GCATTCCAGC CTGGTGACAG AGCGAGACTC TGTCTCNAA A

51

(2) INFORMATION FOR SEQ ID NO: 4192:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 56
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04948

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4192:

GATCTTGTTT GTTGAGGGAG ATGGGACTAT AATAAAATTG AATGCTGAAG TTGAAA

56

(2) INFORMATION FOR SEQ ID NO: 4193:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 50
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04950

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4193:

GATCGCGCCA CTGCGTTACA GCCTGGCGAT AATGCAGGAC TCAGTCCAAA

50

(2) INFORMATION FOR SEQ ID NO: 4194:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 113
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04965

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4194:

GATCTGTCTT GTAAACCACA TTCTTGACAA CTATTGCTT TTGAGTAGTT TGTATTTTAA 60
 TATGTGACTT TNGTCTTGAA AAGTAGTAAA GCCATAGACT TGTGCAAAAC AAA 113

(2) INFORMATION FOR SEQ ID NO: 4195:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 192
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04985

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4195:

GATCATTATG CAATAAAGCT GCTAAAGTNA CATTGTGGT TGATACTCAA GCCTTGTTACA 60
 AGCACATATN ATGTAGACAT TTTNAAATGT NAAGCTTTAA CAGGAATAGG ATAGCTGTTT 120
 CAAACCTTGT GCAATTGTAA ATAAATTGTT TAGCTGTGTT TCTTTCATT TNAATAAAAA 180
 ATTAATAAGA AA 192

(2) INFORMATION FOR SEQ ID NO: 4196:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 50
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04986

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4196:

GATCAATTG TAATTGCTTA CATTTTTACA ATAAATAATC TGTACGTAAA 50

(2) INFORMATION FOR SEQ ID NO: 4197:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 282
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04987

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4197:

GATCTTTCTT TGGCAACCAC TTTTACTGT CGCCATAGTT CTCCTTTTC TAGAATGTCA 60
 TATTGGAATC ATATAGTATG TAGCCTTTTC AGACTGGCTT CTTTCACTTA ATAATATGCA 120
 ATTAAGGTTT CTCCATGTCA TTTCATGGCT TAATAGTGCA TTTATTTTGA GCACTGAATA 180
 ATACTCCATT GTCTAGATGA ATAGTTTATC CATTACCTA TTGAAAGACT TCTTGGTGGT 240
 TTCCAAGTTT TGGCAATTAT GAATAAAGCT GTTGTAACA AA 282

(2) INFORMATION FOR SEQ ID NO: 4198:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 257
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04988

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4198:

GATCTTTTCA GTCAAAAATC TAAGATGATT TATTTGTAT CACTTTGTTA AAAGCTGAAT 60
 ATTGTTAACT ACAGTTAATA TTAACACTGT ATTTATACTT TCTCAAATA CATCCGCCCC 120
 ACCACTTCTG GTTGCTCTG TTGACTATTA ATCCAGATGT AAACAACCAG ATGTTTTTTT 180
 CTAAGTTGTA CAACTGACG TGTGTCACT ATCATGGAAG GAAAAAATG TACAGATTAA 240
 AATTATTCAG NGTTAAA 257

(2) INFORMATION FOR SEQ ID NO: 4199:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 132
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04989

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4199:

GATCCAGGNG TTGACTATAA CCAGATTTAC TCTTTGCTTA CTAGGNTTTC CATNNTCACC 60
 ATTGATGAA CCNCTGGTTT AGCCACAGTT GTGAAAATAA ATGGAAGTTG GTTGATTGTC 120
 TAGAAAGTGA AA 132

(2) INFORMATION FOR SEQ ID NO: 4200:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 51
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS04990

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4200:

GATCCGCATC CAAGCTTAAC CAAGGCTCCA ATAAACGTGC TAGGAAGCAA A 51

(2) INFORMATION FOR SEQ ID NO: 4201:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 108

(B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04991
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4201:
 GATCAGTCGC TGACTCATTGATGAACCAG GAGCCTGCAT GCTACAGCCC ACCTGCCAAA 60
 TCTTGCCCCC ACCTGCTTTT TAAAATAAAG TTTTATTGGA ACATGAAA 108

(2) INFORMATION FOR SEQ ID NO: 4202:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 113
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04992
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4202:
 GATCTTTGCT CTGTTTCCAG TGGGGTTTGA AGCAGAGTTC AGGGAACCCCT GCCCAAGGTC 60
 CTCCTGTTCA GACATTCCTA TGTTGAATAA AGTATGTTTG ACTTCCCCGG AAA 113

(2) INFORMATION FOR SEQ ID NO: 4203:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 471
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04993
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4203:
 GATCCACCT CAAATTAGCT TGATTGCAAA ACAGATATTG GAACATGGAG CTGAGAAGAA 60
 GATGGTCTGG GCTTCAGGCA CAGCTGGGTC CAGGGACTCA GACCNNNTTG TCTCCATCTA 120
 TCTNCTGTGT TTNCTGTAG GAGGTGGCCT CACTTTCCCC TAGTTCAAAA GGGCTTACTC 180
 CATATGATGG GGAAGGGAA GACAGGNCCA TGAACAGCCC TAGACTTCCA TCAGCCCACC 240
 TGGGAAGCCC TCACAGGAAA ATNAGTCTCA TTCCTAGTAC ATGAAATCTC AGGGGAGGGA 300
 ACTCCGATTT GGCCACCTTC AGTNATGTGC CCNGTCCCTN GGGGCCAAAT CCNCTTTTGG 360
 GTTGGTGGGG GCGGGTTTCA AGTGATTGGG NAAATNGCCA ACCNAAAGTT CANGTTNGAA 420
 GTTGAGNAA NGGGGAANTT TTNCCCAAAA AGAAANGGNA AGGTTTGNTA N 471

(2) INFORMATION FOR SEQ ID NO: 4204:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 338
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS04994
 (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4204:

```
GATCAGGAAT GGGTGATTGG AGATTATTAG ATTCTAGGTT AACTTCTACC ACTTTACCC 60
AATACATAAA ACTTTTTTCCT AAATAAATGA TGGAAGGAAT AATACTTGGT TACCTGGCAT 120
TATTTTTTCAG TAAGAAAAAA GCTTTACTAA CCACTACATT TATGGAAATT TGTAGGGGTA 180
AGTATTTTAT AGGTCATAAA AAACACCATA ATATAACGAA TCTCATTTNC TTAAATGTG 240
AATTAAATCC TAACAGTCAT CTTTATAAAA TGACCATAGG CTAAANTCTT ACGTGTAAGT 300
NCTACTACAN TAAATANTTT CTGGAAACCT TTTATAAA 338
```

(2) INFORMATION FOR SEQ ID NO: 4205:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 237
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04997

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4205:

```
GATCACCTTC CAGACCACAG CAGATGTGGG ACACACAGCC TCCTGACTCC AGGAAGAGCC 60
AGANCTGTGC AGGGAGGAAG GGGTGAGAGG GGGGCCCCCA CACCTAGACT CAGTAAGGAA 120
GTCGGGTTNG ACCTTAACAT CTNCATTGGA CAACTCCACC CNTNCCTTGG CCTTGCCCCCT 180
GCCCGNNTAC ACTCCTACGT NTCCANGGGC TTNGGCCGTG ACTTAGGNAG AGGAGTN 237
```

(2) INFORMATION FOR SEQ ID NO: 4206:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 313
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04998

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4206:

```
GATCATCCGC AGNCTCATGT TAAAAGGATT TTAGCTCACT AAAAGTGTA TAATGGAAAT 60
GTGGAAAATA TCGTAGGTAA AAGAACTAC CTCATGCTCT GAAGGTTTGT TAGAAGCACA 120
ATTAAACATC TAAAATGGCT TTGTTACACC AGAGCCATCT GGTGTGANGA ACTCTATATT 180
TGTATGTTGA GAGGGCATGG ANTAATTGTA TTTNGCTGGC AGTAGACACA TTCTTTATTA 240
TTTGCAGATT CCTCATCAA TCTGTANTTA TGCACAGTTT CTGTTATCAT TAAAACAAAG 300
GAATCCNGTT AAA 313
```

(2) INFORMATION FOR SEQ ID NO: 4207:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 271
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS04999

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4207:

GATCACATCT NTNTGAAGCC AAAGCCCCGT GGTGCCCCAT GAGAAGTGTC CTTTTTCATT 60
 TTCACCCAAA TGAAGTGTGA ACGTGATGTT TTCGGATGCA AACTCAGCTC AGGNATTCAT 120
 TTTGTNTCTT AGTTTTATAT GCATCCTTAT TTNTAATACA CCTGCTTCAC GTCCCTATGT 180
 TNGGAAGTCC ATATTTGTNT GCTTTTNTTG CAGCATCATT GCCTNTACAA TACTGNCCGG 240
 TGGACAAANT GACAATNGAT ATGTNTTGCT N 271

(2) INFORMATION FOR SEQ ID NO: 4208:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 345
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05001

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4208:

GATCGCACTG TGGGCCGGGG CCCTGGAGGG CTGCTCTGTG TTAATAAGAT TGTAAGGTTT 60
 GCCCTCCTCA CCTGTTGCCG GCATGCGGGT AGTATTAGCC ACCCCCCTCC ATCTGTTCCC 120
 AGCACCGGAG AAGGGGGTGC TCAGGTGGAG GTGTGGGGTA TGCACCTGAG CTCCTGCTTC 180
 GCGCCTGCTG CTCTGCCCCA ACGCGACCGC TGCCCGGCTG CCCAGAGGCT GGATGCCTGC 240
 CGGTCCCCGA GCAAGCCTGG GAACTCAGGA AAATTCACAG GACTTGGGAG ATTCTAAATC 300
 TTAAGTGCAA TTATTTTAA TAAAAGGGGT ATTTGGAATC AGAAA 345

(2) INFORMATION FOR SEQ ID NO: 4209:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 406
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05002

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4209:

GATCTTACTT TCATAATTCT TTGATTCTAG CTGTCAGAGT CAAGACGNAA AGNTAACTCA 60
 TGGGATGGAC AAAGTGAAG ATGTAAAATA AGTAAGGCTT TNTGGGCCAA AAAGCCTCTT 120
 CTTACAGAAA ATCAAATTTT AAAAGAACAT TGACCTCAA ACAATAAAAC TGTCTGGTT 180
 ATGCAATAGA AATAGCTATA TAAATGGAAT CATATCCTTA ATGAACACCT CCTGTGGCTA 240
 CCCAACTTTT CACACATCTT ACTGATTATA GGCCTTGCTG TGAATGCTTT CTGCTCTAT 300
 CTGAAGTATT CCCACCAGAG TTGTTTCCAA CNTTATTTCC TATATTATGA AAAATGANGT 360
 TTTTAAACA TTGTAACAAA GTATTTGNAA GGTAATGTAT ACTGTN 406

(2) INFORMATION FOR SEQ ID NO: 4210:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 74
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05003

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4210:

GATCTAAAAA AANNTAAATT ACATTAGTAA CACAACATAA GAAAAAGACA GGGACAAAAA 60
 CAAAAAATAA TAAA 74

(2) INFORMATION FOR SEQ ID NO: 4211:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 230
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05004

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4211:

GATCCTATGT GGAAGGGCTG TTTTAAAGA AAAAATTTT GGTAAACAGT ATTGTGTAAA 60
 ATTGCTTTTT GTATACCAAT ATATGCATGT TTTGTGCATG AGTAGTACTT GTGTTGATAC 120
 TCCTGTTGAT GTTAAATTAC TATATAATAT AANCAGTATG TGTTTTTATA TATCATTGTG 180
 TAAATTTAAT ATAACATATG CNGTAATAAN CCATTNGTNT TACGGGCAAA 230

(2) INFORMATION FOR SEQ ID NO: 4212:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 161
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05005

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4212:

GATCTCAATC AAGTTAGCAT GCTTNTCTCCA GCTGCCCTAT NACCTGCCAG CTCATCACAA 60
 AGAACCACGG CCACCCAGGT CATGGCAAAC TCTGCTGGAC TTAACCTCAT CAATGTAGTG 120
 GGCTCTNTTT GTGGGGCCCA GGCTTTGATG AGTNGGNNNN N 161

(2) INFORMATION FOR SEQ ID NO: 4213:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 259
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05006

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4213:

GATCGAGACC ATCCTGGCCA ACATGGTGAA ACCCGTCTC TACTAAAGAT AAAAAATTA 60
 GCTGGACATG GTGGCGGGCG CCTGTNTTCC CAGCTACTGG GGAGGCTGAG GCAGGAGAAT 120
 GGCTTNGAGG CAGTAGAAT GCTTGAACCC TGGAGGCGGA GGTTACAGTT ATCCGAGGTT 180
 GTGTCATTGC ACTCCAGCCT GGGGAACAGA GCGAGACTCC ATCTCAAAAA AAATAAAAAA 240
 CTTGAGCTTT TGCATGAAA 259

(2) INFORMATION FOR SEQ ID NO: 4214:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 71

(B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05007
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4214:
 GATCATGCTT TAAGGTTTAT GTAAAGAAAG TGTACTGATG TTCTTACATT AAAGCTTTAC 60
 AAAGATTTAA A 71

(2) INFORMATION FOR SEQ ID NO: 4215:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 67
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05008
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4215:
 GATCTTGGTG GTAGTAGCTG TCTATGATTC TNGCTCAGCA AAGTAAAATA AATGTTAAAT 60
 ATGGAAA 67

(2) INFORMATION FOR SEQ ID NO: 4216:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 143
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05009
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4216:
 GATCAAATGA AATAATGTAC ATGAAAAGAC ATATATAAAA TGTATAATAC AGACAAAGGG 60
 NCCTGTTACA CAGTTGGAAG TCATNCCCTC AGATTTTGGG CCTAGGAAGG TAGGTGATTT 120
 AAACCTCACTG AAAGCANNNGN NNN 143

(2) INFORMATION FOR SEQ ID NO: 4217:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 362
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05010
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4217:
 GATCACAGCC ACTGGTCCAT AACAATTAGG AAAAATCATT GGACAATGGT TGTCAGGTTC 60
 CTCCATTGGA GGGAATTGTG TTTTCATGATT AGGCACTGTT TCTGCTCCTT AAAAATGACT 120
 TTCCAGTCTA TCCTCCACAG CTCTTTGTTC TACACTCTAG GGAATCATTC TTTTCCCTC 180

ATCTTCCTTA GTCACCTGCA AAGGACATTA GAGAATATGC CCTTTTGGT GGATAAATGG 240
 GTTCTTCAAC CFGCTTTCTG CCTGTAGAAA ATTAGAGGCC AATAATCTGT TTATATCTTG 300
 TAGAATGTCT ATTTTAGCTG GTACCGGTAC TTTTGTCAAT AAAGTTCTTT TTAAACTTA 360
 AA 362

(2) INFORMATION FOR SEQ ID NO: 4218:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 213
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05011

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4218:

GATCTGNGAA GAGCACATAT GTGTCAGGGC ACAATTCCCN CTCATAAAAA CCACACAGCC 60
 TGGAAATTGG CCCTGGCCCT TCAAGATAGC CTTCTTTAGA ATATNATTTG GCTAGAAAGA 120
 TTCTTAAATA TGTGGANTAT GNTTATCCTT AGCTGGAATA TTTNCTCTAC TTCCTGTCTG 180
 CATGCCCNAG GCTTCTGAAG CAGCCAATGT CGN 213

(2) INFORMATION FOR SEQ ID NO: 4219:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 169
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05013

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4219:

GATCACTACA ACANTTTNTT TGCCTCCAAG GTCCTCTGAG GCAGCAGGCT CTGGGGCTTC 60
 TNCTGTCCTT TGGAGGGTGT CTTCTGGGTA GAGGGATGGG AAGNAAGGGA CCCTTACCCC 120
 CGGNTCTTCT CCTGACCTGC CAATAAAAT TTATGGTCCA AGGGAGAAA 169

(2) INFORMATION FOR SEQ ID NO: 4220:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 235
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05014

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4220:

GATCGCGCAG GATTTCAAAA CCGACCTGAG GTTTCANAGC GCANCATCGG TGCGCTGCAG 60
 GAGGCTAGCG AAGNANCCTG GTGGGTCTGT TCGAAGATAC CAACCTGTGT GCCATCCACG 120
 CTAAGAGAGT CACCATCATG CCCAAAGACA TCCAGTTGGC TCGCCGGATA CGGGGAGAGA 180
 GAGCTTAAGT GAAGGCAGTT TTTATGGCGT TTTGTAGTAA ATTCTGTAAA ATAAA 235

(2) INFORMATION FOR SEQ ID NO: 4221:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 196
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05016
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4221:
 GATCAAAGTC CTACAGTGGC TGTCACGCAG CCACNAGGTC ATCTCCTTTC ATCCCCACCC 60
 CAAGGCGCTG GCTGTGACTC TGCTTCCTGC ACTGACCCAG AGNCTCTGCC TGTGCATGGC 120
 CAGCTGCGTC TACTCAGGTC CCAAGGGGTT TCTGTTTCTA TTCTTTCCTC AGACTGCTCA 180
 AGAGAAGCAC ATGAAA 196

(2) INFORMATION FOR SEQ ID NO: 4222:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 262
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05018
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4222:
 GATCTGCACC AGACTGTTAC CTTCTGGGGG AGATGGAGAT TTGACTGTTT AAAAAGTCAA 60
 AACAGCGAGG AGTCTTTCTA GAACTTTTGA AACTAAAAAG GATGAAAAAA ATTAGCAAAC 120
 CGAAGTTTCT TCAATGACCC CTCGAGAACT TTGGGACCAG TTTCTATGG GGGACTCAGT 180
 TTCAGAGAAC TGAGACAGAA GCTCTTCTGT CGTTATATTC TTCTTTCCTT TTTTGGATT 240
 TATTAAATAT TTTCTGTGGA AA 262

(2) INFORMATION FOR SEQ ID NO: 4223:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 277
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05019
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4223:
 GATCCTGCAG TGTCCTGTGG GTTCATCTCG GATGGGCGCT GCATAAACAG CCTGCAGGGA 60
 ACGTCTGGGA GAACCAGCTT CACAACAGAT ATAATAAGGA AGAAGTTTGA AATATTGCAA 120
 GANTTGCGAA AGTGTGACAC ACAGATACAA AGTGGGCACA TGCTCGTGGG AAAATGTTGC 180
 CAATAGACTT GCTTGACTCT GGAGTTACCC CGAACCTTCA ATTTGTTTAA AAAAAAAAAAN 240
 GGGCANTTTN TTGNNGNGCA NTAAGGTGNC CTGCAAA 277

(2) INFORMATION FOR SEQ ID NO: 4224:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 271
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05021

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4224:

```

GATCGCGTCC ACCTTCATCG CTGTGGTGCA AGCCATCGTC CGCACGGCTG GTGGCTGGGC 60
AGCTGCCTCG GACTCCAGGA AAGGCGGGGA GCCTGCCGGC TACTGAGTGC TCCAGGAGGA 120
CAAGGCTGAC AAGCAATCCA GGGACAAGAT ACTCACCAGG ACCAGGAAGG GGACTCTGGG 180
GGACCGGCTT CCCCTGTNAG CAGCAGAGCA GCACAATAAA TNAGGCCACT GTGCCAGGNT 240
CCAGGTGGCC TNCCTGGNCT GTTTCCCCAA A 271

```

(2) INFORMATION FOR SEQ ID NO: 4225:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 138
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05023

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4225:

```

GATCCACGGA AGACTGTCAG CAGACTTCAC CAGAAACTT TCACGCCAGA NGGCAGTCGT 60
GATATATACA AAANGCTGAA AGGAAANCAC TGCCATCCAG GANTACTATC TCCAACNTC 120
CTGTGTTTCA AAANTTAN 138

```

(2) INFORMATION FOR SEQ ID NO: 4226:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 64
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05024

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4226:

```

GATCTGCATT TAAAAATATG GTCTTTGTTT TATATGATTA AATGGTTTGT TTTCATAGAT 60
GAAA 64

```

(2) INFORMATION FOR SEQ ID NO: 4227:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 296
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05025

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4227:

```

GATCCCGGCT GTTGGTGAGC AAAGAGCCCA GGCCCTAGA GTGCGCATGT NCAGGCTCCG 60
CTGTTAGANT CACAGCGGTT CAAATCCGGC ATCTGGTCGC TGAGTGGCCT CAGGCAGTGA 120
CCACGCTCCC GGACCCAACC TTCAGCTTGC CCAAAGCAAT AATCTTTCCT AAAGAAGTGC 180

```

TTGGNTGGGG ATGGTGGCTC ACGCTTGTA ATCCAGTAC TTTGGGAGGC CAAGGCAGTC 240
 TGGGCAATAT AGTGAGGCTC CCATCTGTAC TAAAAATAAA AAAGTTAGGC GTGAAA 296

(2) INFORMATION FOR SEQ ID NO: 4228:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 135
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05026

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4228:

GATCAGACCT CTCATGCTGT GGAGATGAAA AAGCCCTAAA GTTTATGTTT CTAATGTGTC 60
 ACAGAATAGG ACGATATGAT TCTACAACAT AATCAACTCC CTATTAAATT CTTTAATGAA 120
 GATTTTTTTT TTAAA 135

(2) INFORMATION FOR SEQ ID NO: 4229:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 337
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05027

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4229:

GATCCTCTTT CTAGCATGAA TGAAGGATGC CAAGAATGAG AAAAAGCAAG GGGTTTGTCC 60
 AGGTGGCCCC TGAATTCTGC GCAAGGNATG GGCCTGGGGG AACTCAAGGG AGGGCCTAAA 120
 GCACTTGTA CTTTGAACCG TCTGTCTGGA GGTCAAGGCC TGTTGAAAG CAGGGGTAGA 180
 GGGGAGCCCT GGAAGCAGGG CTTTTCCGGA TGCCTAGGGG TGGGCAGTGC CAGCCCCTCC 240
 TCACCACTCT TCCCCTTGCA GTGGAGGAGA GAGCCAGAGT GGATACTATT TTTNATTAAA 300
 TATATTATTA TATGTTAATA AAAAANTCAT ATCCAAA 337

(2) INFORMATION FOR SEQ ID NO: 4230:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 179
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05028

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4230:

GATCCTTCGC GAGCGAGTGA ACAAGAGGCG GGTGAAGGAG ATGGTGAAGG AGTTCACACT 60
 GCTGTGCCGG GGTCTCCATG GCACAGGGTA CACAGCTGAC TACTGAGGGG TGCCCCATC 120
 CCATCCACCC CTTCTCTTCA TCCTTCCCTA TTCCCAAAGN GTAAACCTGG NCCCTNAAA 179

(2) INFORMATION FOR SEQ ID NO: 4231:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 207

(B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05029
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4231:
 GATCGCTGGA CGCTATGAGA GGGCGTCCCA GGGCCCAGCC TCCCACAGCC GTTTCAGCAG 60
 GGACAGGGGC TGAACAGGCC CTATTCCAGC CCCCTTGCTT CACTCTACCG GACAGACGGC 120
 AGCAGTCCCA GCTCTGGTTT CCTTCTCGGT TTATTCTGTT AGAATGAAAT GGTTCACATA 180
 AATAAGGGGC ATGAGCCCTT CCTCAAA 207

(2) INFORMATION FOR SEQ ID NO: 4232:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 386
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05030
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4232:
 GATCTGAAAT AGTTTCTTC CACTACATTG TTGAAATCAA TGAAGCAATT AGTTTCTCAT 60
 TCAGAAATGT GCACACTAAT ATTTAGTTTT GCTTCTCGT GGATAATATT AAGCNCTTAC 120
 TCTGCAGTTT CCTGGAAGTT GTGTCAACTG CAGTGATACT ATTCAGGATG GTGGGAAATC 180
 CCCAAAAATA TGTATGTGTG GGCTTGCTTA GATTACTATA TTTCATAGTT AATCTTTTGT 240
 CTCTTGCGGT GCTCATGATG TGTGGGGCAC ACGGAAGGCA TTGCTGTAGT CAGTCATTTT 300
 GGTTTTCTTC TATAGCCATT TTATTATTTT AGTGTATTAG TTATGAAGAT AATATTNNCT 360
 ATTTGTAAAT NGCTACTTTG TATTTN 386

(2) INFORMATION FOR SEQ ID NO: 4233:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 356
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05031
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4233:
 GATCTTCANA TTGCTGTGAT TAATGCATCC AGATTNTTTT CCTAGTATTT CCAGGTTAGA 60
 ACCTGTGGAT TGTTTCANTT GCATATAGCT TGGTTTCCAT AACATAGAGC ATTGGTTGAC 120
 TGTTTACAGA AGACTCACTC ACCAGGATAA ACATTGCNGT ATGTNACAGT AAAGCTATCT 180
 GGAGAGANCA CATAAATGAT TTTGGCATA CATTAGAGAA ACCATTTGTA AAACCTCAAAT 240
 GNCCACATAA NGCTTATCAG GGGGTCTAGA TTGGTNTTGT NNTATAACCAT ATGGGATGAN 300
 GNAAANTAGA AATGTCAGTA GAACTCATTG AGGGTGCTCT NGCCAGCTGC NGANAN 356

(2) INFORMATION FOR SEQ ID NO: 4234:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 105
 (B) TYPE: nucleic acid

(C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05033
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4234:
 GATCTGCTTT TTTNAAATGT TAAGGACATA TTTTNAAGTT ACTGCTGAGT GAAGAAAGAA 60
 CATAGCTCCC CCTCATTCCC TGC GTAAGAA AGGAGCTTAA AGAAA 105

(2) INFORMATION FOR SEQ ID NO: 4235:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 343
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05034
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4235:
 GATCAGGGGCC TTCCTGCCTC CCGCTGGGCA GGTCTGGCCT TGCNCTCTTG GCAGGGCCCC 60
 AGCCCCTCTA ACCACTCTGC AGCTACCAT GCAGCTGATG CCAAANTTGT GGTGTCCAGT 120
 GTGCAGCAGC CCTGGGAGCC ACTGCCACCT TCAGAGGGGT TCCTTGCTGA GACCCACATT 180
 GNTTCACCTG GCCCCACCAT GGCTGCTTGC CTGGCCCAAC CTAGCGTTCT GTGCCATGNT 240
 AGAGCTTGAG CTGTTGCTCT NCTTCAGGGG AGGAAATAGG GTNGAGAGNG GGAAGAGNNT 300
 TNGCTCCTAA GTGTTGCTGC TGTGGCTTTT TTTGCCTTCT GCN 343

(2) INFORMATION FOR SEQ ID NO: 4236:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 370
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05035
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4236:
 GATCATTTCA AAACATTTT CCTATGTAAC TGCATTGAGA ACTGCATATG ATTCGCTGAT 60
 ATATGTGTTT TTCACATTTG CGAATGGTTC CATTCTCTCT CCTGTACTTT TTCCAGACAC 120
 TTTTTTGAGT GGATGATGTT TCGTGAAGTA TACTGTATTT TNACCTTNTT CCTTCCTTAT 180
 CACTGACACA AAAAGTAGAT TAAGAGATGG GTTTGACAAG GTTCTTCCCT TTTACATACT 240
 GCTGTCTATG TGGCTGTATC TNGTTNTTCC ACTACTGNTA CCACANCTAT ATTATCATGC 300
 AAATGCTGTA TTCTTCTGTT GGGTGGAGAN AAAGGATTTC TTGNAGGTTT NGTTTTTAAA 360
 ATTNAAAGCN 370

(2) INFORMATION FOR SEQ ID NO: 4237:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 529
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05037

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4237:

```
GATCTGTTTC GTGCATTGGA AGACCCCACC CAAGCTTGGC AGNCGAGCNN ATTGTATCCT 60
GGGGCTCCCT TCATCTCCAG GGAGTCCNNT CCCCggccct ACCAGCGCCC GCTTGGCTGA 120
CCCCCTACCC CACACCAGGC CGTCCTCCCG GGCCCTCCCT TGGAAACCTG CCCTGCCTGA 180
GGGCCCCCTCT GCCCAGCTTG GGCCCAGCTG GGCTCTGCCA CCCTACCTGT TCAGTGTCCT 240
GGGCCCCGTTG AGGATGAGGC CGCTAGAGGC CTNAGGATGA GCTGGAAGGA GTGAGAGGGG 300
ACAAAACCCA CCTTGTTGGA GCCTGCAGGG TGGTGCTGGG ACTTAGGCCA GTCCCAGGGG 360
CAATGTATTG GCCTGGAAGG TGGGGTTTGG GATTNNGGGG GCTTGGTGCC AAGCTTTCCT 420
TTTNANGNT GACCTTTNTT TNGTNCTTNC CCCTTTGGGG NGGGNTNAAA AGNCCCAAGT 480
TTGANANTGG GAAATAAANT TTTTTTGGGC CTCCGNTTT CCCTTNA 529
```

(2) INFORMATION FOR SEQ ID NO: 4238:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 365
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05039

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4238:

```
GATCGTTTT TCATTGTAT GCTTCACAAA CTGGATTG ACAAAGAAAA TGTTTATGNN 60
NGAATTGCGA CAGTGATTC GCAACTNTCC TCAGTTCAGA TTTGACTGGT TTCTTAAGTC 120
CAGAACTGCA ATGGAGCTCC AGNGGAGATG TAATACCTTA ATTNCTTTGA TTGAAAGAGA 180
AAACATGGAA CTAGAAGAAA AGGAGAAGGC AGAGAAAAAG AAACGAGGAC CAAAGCCTTC 240
ANCACAGAAA CGTAAAATGG ATGGCGCACC TGATGGTCGA GGTAGAAAAA NGTGGCTGGA 300
ANCTATGNNT ATGGTTTTNT TTCATAAATC ACTNAGCTTT ANACCNAGTA GTTCCTNTNA 360
NTTTN 365
```

(2) INFORMATION FOR SEQ ID NO: 4239:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 114
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05040

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4239:

```
GATCATTACA ACANTTGTNT GCCTCCAAGT CTTGAGGCA GCAAGTCTGG GGCTTCTGTN 60
TCNTTTGAGG GTGTCTTCTG GGTAGAGCGA TGGGAAGGAA GGACCCTTAC CCNN 114
```

(2) INFORMATION FOR SEQ ID NO: 4240:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 312
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05041

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4240:

```
GATCATCCGC GCGGCCCGG CTCGTGGGGC GCCTGGAGTG AGGGTTCTGG TTCCCGCCGG 60
CGAGGATTGT TAAATNAGT CTTGGAAGN AGACCCTAG TGAATTCTTA AAGCAAATCA 120
TCGGACGACC AGTTGTGGTA AAATTAAATT CTGGAGTGGA TTATCGAGGG GTCCTGGCTT 180
GCCTGGATGG CTACATGAAT ATAGCCCTGG AGCAGACAGA AGAATATGTA AATGGACAAC 240
TGAAGAATAA GTATGGGGAT GCATTTATCC GAGGAAACAA TGTGTTGTAC ATCAGTACAC 300
AGNAGAGACG GN 312
```

(2) INFORMATION FOR SEQ ID NO: 4241:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 306
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05042

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4241:

```
GATCGGAGTA CANAGTNACA NTTGGAGGGC AGGGGGACTN TAAGGCAAGG AGATTACAGT 60
TGGGAAGGAG GCAGTGGCAG AGGGGTGAGG GACAGGGGCC CTTAAGTCCA GCGAGGAAAAG 120
CTCGGTGTGG GCGCGTCTAC GCTCCGTTTG GGGTGACCTG GAACGCCTCT TCTACAGCTC 180
CTNCAGCATC AGCAGCCTCT TGTCAAGTTT TGCCTCGCCC ANTCTATCCC AACCCAAAATA 240
AGACACTTTC TTCACGNCAT ATTATCTTTG TCCTTTCTTT TTAAAGAACA TCACAAAACC 300
ATGAAA 306
```

(2) INFORMATION FOR SEQ ID NO: 4242:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 287
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05043

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4242:

```
GATCTTAAAC CCAGTCTTGA CAGACTAGAA GTTAAGTTTA ATACAGAAAA TGTCTGTTC 60
ACTTGAAAGA AAAGACCTAC TTTTAAATG GACACTATCT TGGTTCTTTT TTTTAAAGTC 120
ATCTTTTTGT TATAAGTGAC CTTTGTCTGG AATGTCTGAA AAGTAGTTAA TGCTTTTNGG 180
TATTGAAGTA ATGGGTAAGT AAAATGGACT TCCATAGTAT TGACTGTAGA AGGAGCCTCT 240
ACAATATTGA CTATATATNN NNATAAACTA CTGGCAAGGN ACTTAAA 287
```

(2) INFORMATION FOR SEQ ID NO: 4243:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 324
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05044

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4243:

GATCTCCACT GTTGGGTGGG TGGGCCCTGC CGGGACCCTG CTTACAGGC AGGCTTTTCC 60
 TCCAACCTGT GGCCTGCAG CAGGCAGGA AGGGGAAACA CAGCTGATGA ACTGTGGTGC 120
 CACATGACCC TTGTGGCACA GATGCCACG TATGTGAAAC ACACATGGAC ATGTGTCCCA 180
 GCCACAGTGT TATGCTCTGT GGCNGGCTCA CCTTTGCTGA GTTCCGGGGT GCAATGGGGG 240
 AGGGAGGGAG GGAAAGCTTC CTCCTAAATC AAGCATCTTT CTGTTACTTG ATGTTCAATA 300
 AAAGAATAGT TGGCAAGGCT GAAA 324

(2) INFORMATION FOR SEQ ID NO: 4244:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 65
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05045

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4244:

GATCATTCAT ATGTGTACAT AAAATTTTAA AAATAAAGGG AATTGACTGC TTTGTTAATG 60
 AGAAA 65

(2) INFORMATION FOR SEQ ID NO: 4245:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 288
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05046

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4245:

GATCCAGAGA ATGAATCCCT GACCGCATCA CCTAACTGT CTTCAAACA TGAGACAAAG 60
 CTGACTGTTC AACTGATTG CCCAGCACAT ACCGTCTTGC CAGTTTCTTC TTTTCTCCCA 120
 GTCTCCTGTT CATCCATTCT GTTCTCCCTT GGGGTGGGAA TCTATGATGG AGGTTACTGG 180
 GGAAACAGCT CAGCAGATTT TTGGAGACCA AACCAAAGGT CTACTAGGA AATTTATCTG 240
 TTTTAAAACA TTGCTTCCTT CCTGGCTCTG CTAAATTGAA TGCTCATN 288

(2) INFORMATION FOR SEQ ID NO: 4246:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 333
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05047

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4246:

GATCTCTGCT CCTAACGATG AAGACTGGGC CTATTCACAG CAGCTCTCTG CCCTCAGTGG 60
 TCAGGCGTGC AATTTTGGTC TGCGCCACAT AACCATTCTG AAGCTTTTAG GCGTTGGAGA 120

GGAAGTTGGG GGAGTGTTAG AACTGTTCCC AATTAATGGG AGCTCTGTTG TTGAGCGAGA 180
 AGACGTACCA GCCCATTTGG TGAAAGACAT TCGTAACTAT TTTCAAGTGA GCCCGGAGTA 240
 CTTCTCCATG CTTCTAGTCG GAAAAGACGG AAATGTCAAA TCCTGGTATC CTTCCCCAAT 300
 GTGGTCCATG GTGATTGTGT ACGATTTAAT TGN 333

(2) INFORMATION FOR SEQ ID NO: 4247:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 288
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05051

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4247:

GATCCTCCAC AGAGAGGAGG GGACCAATTC TGGACAGACA GATGTTGGGA GGATACAGAG 60
 GAGATGCCAC TTCTCACTCA CCACTACCAG CCAGCCTCAG AAGGCCCCAG AGAGACCCCTG 120
 CAAGACCACG GAGGGAGCGA CACTTGAATG TAGAATAGGC AGGGGGCCCT GCCCCACCCN 180
 ATCCAGCCAG ACCCCACGNT GACCATGCGT CAGGGGNCTA GAGGTGGAGT TCTTAGCTAT 240
 NCTTGGCTTT NAGAGCCAGC CTGGNTCTGN CCNCTCCNC CATGGGGN 288

(2) INFORMATION FOR SEQ ID NO: 4248:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 170
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05052

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4248:

GATCTCTAAG TGACCACCAG GGGCTCTGAA CTGCAGCTGA TGTTATCAGC AGGCCATGCA 60
 TCCTGCTGCC AAGGGTGGAC ACGGCTGCAG ACTTCTGGGG GAATTGTCGC CTCCTGCTCT 120
 TTTGTTACTG AGTGAGATAA GGTTGTTCAA TAAAGACTTT TATCCCCAAA 170

(2) INFORMATION FOR SEQ ID NO: 4249:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 136
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05053

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4249:

GATCTACATA GATTGGA AAA CTGTTTTCCT CTGTTTGGT CTCTGGGCA ACATTTTGG 60
 CCCAAGTTTG GGCAACATTT GGCCCAAGNT TGGGCATTTT GGCAGTAGCT GTATGGNAGA 120
 AAAAGAGTAA GAGGAN 136

(2) INFORMATION FOR SEQ ID NO: 4250:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 100
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05054
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4250:
 GATCNTTTGC TTTAGNGTGT AAAGTNTGTC TCTGAACAGA ATTATTTGTA AAAGTTAGGA 60
 GTTCTTTTTT AAATCATTA AAGAGGCTTG NTGAAGGAAA 100

(2) INFORMATION FOR SEQ ID NO: 4251:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 204
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05055
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4251:
 GATCCTAGAG CCCTTCACTT CGGNTTACTC CCTCTTTTTT GCCTCTNTTT NTAGTTGGA 60
 AGAAATAAAC TCACAAATTA TGGTGCA GTA ATTNCCGGG GAAAGTAAAG CCTCAGGAAT 120
 GCCCACGCCT TTTTCCAAA GCCTTTNTCT CTGAGACCTC TTAAGTTCTA AGATTAAATG 180
 CCCCTCGCTG TTTCTCCTCT GAAA 204

(2) INFORMATION FOR SEQ ID NO: 4252:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 310
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05056
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4252:
 GATCAAGGAG CAATTATGAA GGTCTACAAG CAAGANCAAG AGGAAGAATT ATNGAAAAAG 60
 TTGGCAAATG NCCCCAGATG GAAGAGATAC AGGAGATGGA TGAAGAATGA AGGGCCTGGG 120
 CGGTTAACAT TTGTGGATGA CTGANGATTG ATGGAATGCT ACTATGCCAA ACCTTAATTG 180
 TGATATTATT TTCATACTG ANTTATTTTA GAAATGTATC ANTNGACTGC TGCTCAGCAG 240
 TAACTAAAAT TCCTCAAGTA TTTGATTAAA CAGATTAATG TCAAANTTTA AACCTTCCCT 300
 TAAACTTTN 310

(2) INFORMATION FOR SEQ ID NO: 4253:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 267
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05058

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4253:

```

GATCTAATTG CATTGGTTAA AAGCAGCTAA CCAGGTCTTT AGAATATGCT CTAGCCAAGT 60
CTAACTTTAT TTAGACGCTG TAGATGGACA AGCTTGATTG TTGGAACCAA AATGGGAACA 120
TTAAACAAAC ATCACAGCCC TCACTAATAA CATTGCTGTC AAGTGTAGAT TCCCCCCTTC 180
AAAAAAGCT TGTGACCATT TTGTATGGCT TGTCTGGAAA CTTCTGTAAA TCTTATGTTT 240
TAGTAAATA TTTTTGTGTA TTCTAAA                                267

```

(2) INFORMATION FOR SEQ ID NO: 4254:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 307
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05059

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4254:

```

GATCANAACT CAAACGGGCC GGNNTTCTA AGGTGTNGGT ATGTGGGGAG TGGTACAAAA 60
TGGTCTGATG CTCCTTCAAA AACATTCACT TTTTACAACG TCAAGGAATT AAGCATAAAA 120
AAGATTGGTT AAAAGCTTTG GTTTCTAGTA AAGGTTAGTG TGTGTGGTTT TTTTAAGAAG 180
CTGTNTTGCT AAATNATTTT TACTTGGAAT GTTTCAAACA GATTTTCAGGC TGCAAACCTTG 240
TTTNATAATC GTNNGCTTCT CCAAGTGAAG CTTCAGGAAT ACCTGGAAAA TAGCTGTAAC 300
GTTTCGCN                                307

```

(2) INFORMATION FOR SEQ ID NO: 4255:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 297
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05060

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4255:

```

GATCTAATAA AAATTGAAAT ATGCCTTTTA GAATGGCTTT CAAAGATAAC AAATGCTGGA 60
GAGGATGTAG AACAACTGGA ACCTCTCGGT TATTGCTGGT GAGACAGCCG CTTTGAAAAA 120
GTTTGAGTTT CTTACAAAAT TAACTTACA CTTACACTTA CCATATGACC CAAAAATTCC 180
ACTGCTTGCT CTTTACTCAA GTATAAGGAA AATCTATGTA CACACAAAAC TNGTACGTGA 240
ATATTTATTA ATAGTCATTT TATGCCCCAA ACTAGNAATA GTCCAAATGT TCTGGGN 297

```

(2) INFORMATION FOR SEQ ID NO: 4256:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 208
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05061

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4256:

GATCTNTATT NTTTTNGCAA CAGACTTCAA GTGGTCCCTC TTTTTCCT ACACACTCAG 60
 CTCTTCTCTA AAAGCAAGGA TTTGGAATGA NCAATTCAGT TTGACAGAAA AAGCTGAATA 120
 AAATGGCATC TGTAATTGAN TTGTTGGAAA TGCCTTTTN GCTCCTAAAT NTTAAACATC 180
 ATTAATAAAA TANTGTTTCA CAAAGAAA 208

(2) INFORMATION FOR SEQ ID NO: 4257:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 208
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05062

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4257:

GATCACAGGA AGACTTTGTA AGGACAGTTT AAGTTCTCCT GCAAGGTTTA ATTTGTTATC 60
 ATGTAAATAT TCCAAAGCAG GNTGCCTTGT GGTTTTGGCC AGCCTTGTC TATGTTGATA 120
 AGATTGATTT ACTGCTTAAA ATCACTTTAC TTTATCCAAT TTTTACTGAA CTTTTTATGT 180
 AAAAAAATAA AATCAATTAA AGAACAAA 208

(2) INFORMATION FOR SEQ ID NO: 4258:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 126
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05063

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4258:

GATCAGTTTT CTATTTTAAT GTGTAAAAA AATAACTTGT CGTATCCCAT TTAAAGGCCA 60
 ATTTCTGTAT TCAGGCAGGC ATATGTACAT ACATGAATAA AGCCAACAAA AGTGTGCACA 120
 TGTAAA 126

(2) INFORMATION FOR SEQ ID NO: 4259:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 552
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05064

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4259:

GATCGGGGTG CCCCTCAGCC TTCAGACACT CTGAGCCCCA GANGCAGCAA AGGGTGAGCC 60
 TCCTGCCTTG GTTTCTACCA CCATCTGGTG GTCAATGGCG GGACTGCAGT CGGCCAGGGA 120
 CTGCGGTTGA CCTACACCTT CCTCCCCTGA GACATCAGCT GGCATGCCTC CAAGCCCTCT 180
 GCGCATGCCC TCATTCTCTC CTGCCCCCTG GCTGACTTTG CATGTTGACT TGAACCCCTC 240
 TGGGGAATCT NTGTGCATGT CCACAGCCCC TGTTTATGCT CTCACAGCCA CTGCCCTNT 300
 CTNTGTTCAG GCTGAGCTGG CTGACCGACC CAATCCNCT AACC GGCCCTC TGCCCGNTGA 360

NCCGGTGGTT GAGAAGCCCG AAGTCTNAGG GGGCCAGCAA GGCCCCAACC NCAAGGNAGG 420
 CAATTGCTTG CNGGAQCCCA AGGGGNCNGN TNGCCAATGG GGGTGNACTT TGCCGGGCCA 480
 AAGGGGNTNN GAATTTCCGG CNCTTAAGTN GTNACCCTTC AANANNAANG GGGCAAACGG 540
 GTTTNGNAAA AN 552

(2) INFORMATION FOR SEQ ID NO: 4260:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 180
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05065

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4260:

GATCAGACCT TCTTGGGGTC TTCTGGCCAG AGCTTGTCAC CAGCCCCATG GCCTCTCCAG 60
 GCGTGCTCAT GCCACAACC CGCGGCCAGC CCCACGTGGT GCCGCTCAGC CTTCTCTGCC 120
 CCTCTGGGA ATCTGTCATT CGTGGGTGCT TCAGAGTAAA ATCAATGAGT TTCTGAGAAA 180

(2) INFORMATION FOR SEQ ID NO: 4261:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 553
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05066

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4261:

GATCAGCGTG CGGGGTGTGA AGATAGGCGT CAAGGCCGAT GACTCCCAGG AGGCCAAGGG 60
 GAATAAATGT AGCCACTTTT TCCAGTTAAA AAACATCTCT TTCTGCGGAT ATCATCCAAA 120
 GAACAACAAG TACTTTGGGT TCATCACCAA GCACCCCGCC GACCACCGGT TTGCCTGCCA 180
 CGTCTTTGTG TCTGAAGACT CCACCAAAGC CCTGGCAGAG TCCGTGGGGA GAGCATTCCA 240
 GCAGTTCTAC AAGCAGTTTG TGGAGTACAC CTGCCCCACA GAAGATATCT ACCTGGAGTA 300
 GCTGTGCAGC CCCGNCCTTC TTGGGGTCCC CCCAGCCCCT NAGGGCCAAG TTGCCAGGGA 360
 CAAGCTTGGC TTGCTGGACA AGGGATGTTG GCAACTTGNT TTNAGGGAGG GGGGCAACTT 420
 GNCCAACCGG CCANNNGGNG CAAAGGGAAA GTTNGGGGGG NCCCGTTTGG NCCAANGGGT 480
 TAGGGGGAAG GGGTTGGGGG GNAATTNGGG GNGNGNGGGG AAATTTCNA GTTTTANTTG 540
 TTAATTTTTT AAA 553

(2) INFORMATION FOR SEQ ID NO: 4262:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 314
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05068

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4262:

GATCTCCCG ACCCCTGAGG TCANATGCGT GGTGGTGGAC GTGAGCCACG AAGACCCTGA 60

GGTCAAGTTC AACTGGTACG TGGACGGCGT GGAGGTGCAT AATGCCAAGA CAAAGCCGCG 120
 GGAGGAGCAG TACAACAGCA CGTACCGTGN GGTCAGCGTC CTCACCGTCC TGCACCAGGA 180
 CTGGCTGAAT NGCAAGGAGT ACAAGTGNA GGTCTCCAAC ANAGCCCTCC CAGCCCCCAT 240
 CGNGAAAACC ATCTCCAAAG CCAAAGGGCA GCCCGAGAA CCACAGGTGT ACACCCTGCC 300
 CNCATCCCGN GACN 314

(2) INFORMATION FOR SEQ ID NO: 4263:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 176
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05069

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4263:

GATCCAGGGA ACAATGACTA TAGGTGAGCA GATGCTTTAA ATTAAGGAAA GATGGAGAAG 60
 AAGCCAACTA GGAAATTAGA GAACACAGCA AGCAAAGAGA AGCAAGCGAG TCCCCTTGAG 120
 TGATGCCAAT ACTTTTTTTT TTTTTTTT NGANANATT TNTNNCCANT NTGGTN 176

(2) INFORMATION FOR SEQ ID NO: 4264:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 389
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05070

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4264:

GATCTTTNAG GAAAGACGGA TTGCNTTAGA AATAGACAGT ATATTTTNG TCACAAGAGC 60
 CCAGCAGGGC CTCAAAGTTG GGGCAGGCTG GCTGGCCCGT NATGTTCCCTC AAAAGCACCC 120
 TTGACGTCAA GTNTCCTTCC CCTTCCCCA CTCCCTGGCT CTCAGAAGGT ATTCCTTTNG 180
 TNTACAGTGT GTAAAGTGTA AATCCTTTTC NTTTATAAAC TTTAGAGTAG CATGAGAGAA 240
 TTGTATCATT TGAACAATA GGCTTCAGCA TATTNTAGC AATCCATGTT AGTTTTGNAC 300
 TTTCTGTTG CCACAACCCC TGTTTTTAAT ACTGTACCTT TANTTAAAT TCNNGGTTNN 360
 TAGTTTTTTG CAACAGGTTT TTTCCCAA 389

(2) INFORMATION FOR SEQ ID NO: 4265:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 436
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05071

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4265:

GATCACCATG AAAGAAGAAT AGTTTTTTGT CCCAGAGAC ATTCATTTAG TTGATATAAT 60
 CCTACCAGAA GGAAAGCACT AAGAAACACT CGTTTGTGT TTTTAAAGGC AACAGACTTA 120
 AAGTTGTCCT CAGCCAAGGA AAAATGATAC TGCAACTTTA AAATTAAAG TATCTTGCAC 180

TGATAAATAT ATTTAANANT TGTATGTTTA TAAAGTTATT AATTGTNNN GNCNGTGTTA 240
 CAAAATGTTT AGTTTATATT GTTTTAGATT GTTTTGTAAT TTTTAAAGGT GTAAAATAAC 300
 ATATTTNTCC TTTATGGNNA TCTATAAAAC TTTCTGGTAG TAAAATGTTT TCATTTTTAC 360
 TGGGTATATT ATTTGCTTCC ATGNTTTTGT TNCCNTCCA TAAGGNTTN NTGCCAGNTT 420
 TTTTTTTTNN CAGGNN 436

(2) INFORMATION FOR SEQ ID NO: 4266:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 533
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05073

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4266:

GATCTGTCCC CATCCGAAGA GGCTTTGTGA ACTGCCTGCT GAATGGAAGG AAAGCAACTT 60
 TAAAACATTT AGAGTTTTGC TGAGTATAGC CAAATGCCTG TNCTGAAACT TATAGGAAAT 120
 TGGAATTTTG TTTAAAATTT TACACTTTAA GGTAGCAAAT GTCAATTATT NGNCCGAGCA 180
 TATTGTGAAG AATTAACTA AAATTAATAC GTACAGTTTT CTCTAATTAG GTGACTGTTC 240
 ATAATGGGTA TATTTGGAAT TTAGAAGAAA TAATTTTGTA GNACTTGTGG CCCTTATGTT 300
 TAACAGATTA ATTCAGCATT GCGTATTTN CTTTGTCCCA ATACAAGGAT GCCAAAGGAG 360
 GGAAACAGGA AAAATTGCCG TCCCATTTTT AAAAATTTTA GGGGTTTGGN TGGTTTTAAA 420
 CCCNTAAATT TGTTTCCCAN GGANCNTTTT TTTGGGGACC TTNCTAAATT TTTTGGGGGN 480
 CATTTTNAAN TTAAAGGNAT TGNNGGGNNC NAAGGNNGTN TTTGANTTN TGN 533

(2) INFORMATION FOR SEQ ID NO: 4267:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 124
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05074

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4267:

GATCAAGGAA GAGATGGAGG CTTTCCCCGA AAAGTTCTAG CTGAGTGGCA GAAGTGAGAA 60
 TTTGTAAACT TATGTACAAT GTACGTGTAA ATAAATGGAT TGAATTCAG TTTGTCATCA 120
 GAAA 124

(2) INFORMATION FOR SEQ ID NO: 4268:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 451
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05075

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4268:

GATCTGGGAC AGATTTCACT CTCACCATCA CCAACCTGCA GCCTGAAGAT TTTCCAACNT 60

ATTACTGCCA ACAGTATGAT AGTTACCCGC TCACTTTCGG CGGAGGGACC AAGGTGGAGG 120
TCAATCGANC TGTGGCTGCA CCATCTNTNT TCATCTTCCC GCCATCTGAT GAGCAGTTGA 180
AATCTGGAAC TGCCTCTNTT GTGTGCCTGC TGAATAACTT CTATCCCAGA GAGGCCAAAG 240
TACAGTGGAA GGTGGATAAC GCCCTCCAAT CGGGTAACTC CCAGGAGAGT NTCACAGAGC 300
AGGACAGCAA GGACAGCACC TACAGNCTCA GCAGCACCTT TGACGNTNAG CAAAGCAGNC 360
TACNGAAAC ACANAGTNTA CGGCTGCGAA GTTNACCCCN TCAAGGGCCT TGAGCTTNGN 420
CCNGTCACAA AGGNGNTTTN AAACAGGNGG N 451

(2) INFORMATION FOR SEQ ID NO: 4269:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 197
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05076

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4269:

GATCTAGAAA CTGAGTTGTG GAGCTGACTC TAATCAAATG TGATGATTGG AATTAGACCA 60
TTTGGCCTTT GANCTTTCAT AGGAAAAATG ACCCAACANT TCTNAGCATG AGCTACCTCA 120
TCTCTAGAAG CTGGGATGGA CTTACTATTC TNGTNTATAT NGNAGATACT GAAAGGTGCT 180
ATGCTTCTNT NATTATN 197

(2) INFORMATION FOR SEQ ID NO: 4270:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 69
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05077

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4270:

GATCCCATCC CCTTGTCTGA ACTGGAGCCA TGGGCACAAA GGGCCCAGAT TAAAGTCTTT 60
ATCCTCAAA 69

(2) INFORMATION FOR SEQ ID NO: 4271:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 54
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05079

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4271:

GATCTTGCCT CCCATCAGCC ATCTTCTCC CAATAAATTT TTGTTTTGTG CAAA 54

(2) INFORMATION FOR SEQ ID NO: 4272:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 103

- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS05080
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4272:
 GATCTAACCA ATTNAATAT GANTTCATAC TCNAAAGTAT CAACAAAAAA ATGAAAAGAA 60
 ATAGCTGGTT TGGNTGTAAG AAATGGTGTA ATTAATGGNT TTN 103

(2) INFORMATION FOR SEQ ID NO: 4273:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 449
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS05081
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4273:
 GATCACTGCT GGCCTACTCT GGTTACGGGG AACTGACGC CCGGGTCACC GCTGCCATAG 60
 CCAGTAACAT CTGGGCCGCC TACGACCGGA ACGGGAACCA AGCGTTTAAT GAAGACAATC 120
 TCAAATTCAT CCTCATGGAC TGCATGGAGG GCCGTGTAGC CATCACCCGA GTGGCCAACC 180
 TTCTGCTGTG TATGTATGCC AAGGAGACCG TGGGCTTTNN NNTNCTCAAG GCCAAGGCCC 240
 AGGCTTTGGT GCAGTACCTG GAGGAGCCCC TNACCCAAGT GGCGGCATCT TAACGGCATT 300
 GGTGGAAGCT GGGGGTCAGA AAAGAGAAAT GACCCATTG NGAGGGGCTG GGGGNCCTCC 360
 TAGGAAGAAC CTTTNTTAGG ACAATGGGGG GNAAGGGATG GGACTTTTNN TTTTTTCCC 420
 AAGNATTAAA ACTTNAACT CCCTGTAA 449

(2) INFORMATION FOR SEQ ID NO: 4274:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 247
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS05082
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4274:
 GATCTNCATA ANCAGGGTTC CTGAGCTCAC TGAAAAGACT ATTGTCCCTT AGGAAAAGCA 60
 TTTCCTGTGT NTCGTNAGCA TCTGGCTCCA GGACAGACCT TCAACTTCCA AATTGGATAC 120
 TGCTGCCAAG AAGTTGCTCT GAAGTNAGTT TCTATCATNC TNCTCTTTGA TTCAAAGCAC 180
 TGTTTCTCTC ACTGGGCCTC CAACCATGTC CCCTTCTCCT NAGCACCACA AATAATCAAA 240
 ACCCAAA 247

(2) INFORMATION FOR SEQ ID NO: 4275:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 424
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single
 - (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05083

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4275:

```

GATCATTTC CAAGATTGGT TTCCCTTGAG TTTTGTCTAA AACAAATCTT AGTAGTTTGT 60
CCCGTTTAAA ACAACTCACA ATCGTAAATG CTACTATTCC TAAGATATCT NACCTTTTNA 120
TTTCAGTTTA GCCATGTATT GTATGAGTGT ATTAGTCTAA GCAGTGAGAA TCTTTNCTAT 180
GCCTCTATTC CAGCAAAAAG TAGAAGTATC AAATAAAANG GGCAACTTTT AAAATATTAA 240
GCCTGAAGAC TTCTAAAANG ACANGANACA TGGCCTAANT ANCCAACATA GGATTACAT 300
AGTANGTTTC AACTACCTT ATTACCAAAA GCAAACCACC TCTTACTTTT NNNCTACATT 360
TATCCATGTA TATCTNTNGT ATGCTGGTCT TTTNCTTTTT NGCCAAANTC NANCATTTTT 420
TGNN                                           424

```

(2) INFORMATION FOR SEQ ID NO: 4276:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 308
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05085

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4276:

```

GATCTAAAAC TTCTGTTGCT TTTGCCATTC CAAAACCTTG TCTTTGCCAG AAAAGTGTTG 60
GTAAGTATAA AGAAAATTAT ATATGANCAC GGCAGTTTGC ACTGTGTTTG AGTAGAACGT 120
GTAAATGAAT TGTNCCCACC TTTGGTTTGC CAGTAAGTGA CTGGATTCTT GGCACATTTA 180
TGTTACACAA AGTAGAACAA GAAGATATTA TTNCTATTTA TCAAGCAAAA GGAATTTTAA 240
GATTTTNTTT TTNCNTTAAA ACCAANTTGG GATTTTNNNN TTTNNTTTTN TTTGGGGGAA 300
AAGGNTTN                                           308

```

(2) INFORMATION FOR SEQ ID NO: 4277:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 374
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05086

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4277:

```

GATCGAGTCC GCCATGGAGA GGGACCGCTA CATGAGCCCC ATGGAGGCCCC AGGAGTTTGG 60
CATCTTAGAC AAGGTTCTGG TCCACCCTCC CCAGGACGGT GAGGATGAGC CCACGCTGGT 120
GCAGAAGGAG CCTGTAGAAG CAGCGCCGGC AGCAGAACCT GTCCCAGCTA GCACCTGAGA 180
GCTGGGCCTC CTCTCCAGAN TCATGTGGAG GGGCCAGAGG CTGCCAGACC CCCAGCTGGG 240
CCCTGCTCAC CCCTTGTTGC TGGGCTTGGA GGGGCCTNTT GAGGAACTTT TAATTTGCAG 300
GGGTGCCCGN TATGGACGGG GCATTNCAGC TGAGACACTG TGGATTTTAA ATTAAATCTT 360
TTGTGGTCTT TAAA                                           374

```

(2) INFORMATION FOR SEQ ID NO: 4278:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 510

- (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05087
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4278:

```
GATCTGTGCT TTCCAGCTCA CCCCCACAC TCACTCCTGA GACCCCTGGC CTCCGGCGTC 60
ACNTCCAGCN TCTGTTCCCC TAGTAAGTGC CTTCCATGTC GGCCTCTAAC CCCAGGCCCC 120
GAGGACCCAG ACCCAGTGGG GAGGCGGACG TTCCAGCCGG CATGGNTGGG AACTGCAGAC 180
CTGTCCTCCT GGTGGGTCCA GGGGCCCTC CAGCTTGTGG AGCCCCACAN TGGGGTGCCG 240
CCTGCCCATT TTTTCCCAT GGAGCCCCAG CCCCCTTTGG GCCCAGGGAC ACCAGCCAGG 300
CTCTGTGCTG ACCCTCCTGT TGCACCCAGN CCTGGTNTCA GCAGCGACCA CCCCTTGCNT 360
TCACCCTTTG GAGCTTTTGC AATGTTTCCA NTAAANCCCN GGGNTGGGTT NGGNAAGGTT 420
GGGAGGTTGT TAAGGTTGTT TNGGTGNCT TTTTGAAAGG GGNAGGATNA ATTAACCTTG 480
ANCCNNTGGG GCGGNGNGNC TTTTGNGGTN 510
```

(2) INFORMATION FOR SEQ ID NO: 4279:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 466
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05088
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4279:

```
GATCTAGCTT GGAGAGCTTG TGAATCTTAG GAGAGCTAGG CATAGAATGA CTAAAGTTTG 60
TCACCGCATG AGATAAAATA AATGAAAAGC CACTTCTGGA GGGAATGAGG CAGTCTGCCT 120
TTNTTGGAGA GATACATATT GTTGAACAGC TCTGGGCAGT TGATTGTTTG CCTGGGAGAG 180
CTAACCATGT TTA CTCTACA CTTGACCTGT GATGGTCTGT ATTGATTGTN TCACACGCTT 240
AGCTTTCTAA GGCTAACCAG GTCATCGTCC TCAGTCCCTG CCTGCAACTA GGTGCCAAC 300
TGGCCCTTGA TTTCCACCC AACTTGTTCA GTTTGCCCTC AATCCTGGGG CCTCACTNAT 360
TTCCCCAAA NGATATGGTT TGGTACCACC TGTAAGTTTNC CTGTTGCATG GTTAAACCTG 420
ACTTTTGGG GAAACTNAAA ATANAACANT TTTTCAAAAC GGGAAA 466
```

(2) INFORMATION FOR SEQ ID NO: 4280:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 470
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05089
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4280:

```
GATCGAGCCA CTGCTGAAGA ATGTCTAAAG CACCCCTGGT TGACACAGAG CAGTATTCAA 60
GAGCCTTCTT TCAGGATGGA AAAGGCACTA GANGAAGCAA ATGCCCTCCA AGAAGGTCAT 120
TCTNTGCCTG ANATTAATTC GGATACCGAC AAATCAGAAA CCGAGGAATC CATTGTAACC 180
GAAGAGTTAA TTGTAGTTAC TTCATATACT CTAGGACAAT GCAGACAGTC TGAAAANGAG 240
AAAATGGNGC AAAAGGCCAT TTCAAACGA TTAAATTG AGGAACCTTT GCTACANGAN 300
```

ATTCCAGGNG ATTTTATCTA CTGAGCAATA TTTCCCTTTN GAACTTCAAG ATTTCTNCAC 360
 TGNANAATTN TTAATNTTTN TTTTTTTGGG GCCCTCTGGG CCAAATTGGN GNCATGTTCC 420
 TTTGNAGGTG GGTAAACCCA GTTNTCACTT TNCACCAGTC CANNTNTTTN 470

(2) INFORMATION FOR SEQ ID NO: 4281:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 476
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05090

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4281:

GATCTACAGT CACCATATAT ATCAGCAGGA CCTAAGGNAA AAGATTTTGG ATGTTGGGAA 60
 AAGGTTAGAT GTGACTGGAT TTTGCATGAC AGGNAAGCCT GGTATAATCT GTGTGGAGGG 120
 TTTCAAAGAG CACTGTGAGG NGTTCTGGCA CACAATTAGG TACCCCAATT GGAAGCACAT 180
 TTCCTGTAAG CATGCTGAAA GCGTGGAGAC AGAAGGAAAT GGTGAGGACC TCGCCTTTN 240
 CCATTCTTTT GAAGAGTTAC TCCTTGAGGC TCATGGTGAC TATGGATTAN GGAATGACTA 300
 TCACATGANT CTGGGCCAAT TCTTAGAATT TNTCAAGNTG CACAAAATTT NAGGCATGTT 360
 TTTTTCNGT TACTATTTTG GGTNTTNTNA AGCAAAAANT TTCAGNCTTC NTAAAAAGCG 420
 GNTTAAAGGG GGNCTATTG NCCTGTNAAT TTTCCACTNA GGNCAAGTNT TTCTTN 476

(2) INFORMATION FOR SEQ ID NO: 4282:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 277
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05092

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4282:

GATCTGAATT GTNCGAAAAG CAGCCAGTGC CTAANTTGTA GCTCCACTTA TGCCAACTGT 60
 ATATATACCT CTCGTGAGCA TAGCAAGTNA TTTANTATTT TNAAGATG GCTAAAATCC 120
 TTTTAATGAA CAGCACTAAA GTTATATGTA TTAGAGGAGA ATTATTGANT GANATGGAGA 180
 AAGAGTTCTG AAATTANTAT TTNCATTTGG GCTTTTTTAC AGATAATATT ATATNNCTAA 240
 GTGACCAGAC GAAAGAGAAG GGNGTAGAAA AGGNTGN 277

(2) INFORMATION FOR SEQ ID NO: 4283:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 314
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05094

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4283:

GATCCCCAGA CCTCACTTGC CTCTGCCTCC ATCTTGCCCC TGATTCAACC CTAAGATAAT 60
 AGCACAACAA AATTCTNCAT AAAGATATTT TAATTCACCT GTNCCGTGCT ATATGGAGGA 120

GGCCAAGTCC ATTTAGTGAC ATTNCTNCCC ATAATGTGAG TGGGGAGGAT TGTGGGGAGG 180
 AGGGGCTTTG GGTTCQTGTG TTTGTGCATA TGAAGGGAGA TGGGGGTTAG GTGGAGGAGG 240
 AGAGCAGCGT GGTTAGCTAA GGTTATTGCT TTTGTGGCA AATCTAATTA AATGACAGGA 300
 ATCTCTTCAC GAAA 314

(2) INFORMATION FOR SEQ ID NO: 4284:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 489
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05095

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4284:

GATCTTCATG GAGCTGAATG ACGCCTGGTC GGAGTTTGAG AACCAGGGCT CNCGGCCCCCT 60
 CTTCTGAGGC CGCAGTGGTG GTGGCTGCGC ACACAGCTCC ACAGGTGTTGG AGCCGTCGTG 120
 GGACCTGGGT CCCCACCGTN AGGACCCCGT GGGCGACAGA GGTGTGGCCA GGGTGGGGCT 180
 CCGAGCCCCG GGTCAACGCC CGCCCAGCGT TCCAGGCACA TGAAGAGAAA GCATTCCAAA 240
 GCCTCTNATT GTTGTTCCT TTTTNTCCTC CCGAAGAACA GCTGATTCAT GCTCCTCCCG 300
 CAATTNTNAC GTCTGTAATT TATTTGGTGT TTCGGGCGTN GTCTCTTGA GCCCCGGCAC 360
 GTTNGTGGGG CCCACGGTTG CTTGGCGGTT CAATGGGGCC CTTGGTGTG TGCACCGGAA 420
 CTTTTGTAAA TCAAGTNCCG TGGGTTGGTN TTGTTACAAG AATTNAAAAC TAATTTTCC 480
 CGNTTGAAA 489

(2) INFORMATION FOR SEQ ID NO: 4285:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 292
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05096

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4285:

GATCATATTT CCCCTTGGAC ACTTGGTTAG ACGCCTTCCA GGTCAGGATG CACATTTCTG 60
 GATTGTGGTT CCATGCAGCC TTGGGGCATT ATGGGTTCTT CCCCCACTTC CCCTCCAAGA 120
 CCCTGTGTTC ATTTGGTGTG CCTGGAAGCA GGTGCTACAA CATGTNAGGC ATTCGGGGAA 180
 GCTGCACATG TGCCACACAG TGACTTGGCC CCAGACGCAT AGACTGAGGT ATAAAGACAA 240
 GTATGAATAT TACTCTCAA ATCTTTGTAT AAATAAATAT TTTTGGGGCA AA 292

(2) INFORMATION FOR SEQ ID NO: 4286:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 173
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05099

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4286:

GATCCCAGTG GAGGCTGTAA CCCACCTGCC CCCGCACCAC CCCCNTGAC CCCTGTTACC 60
 GCATTTGTGT GTATTAATGC TGAAGAATTA AATGTTTAAA GAGTTTAAAT TTTGAAGGCG 120
 TTTGCTATAT ACAGTTGTCC TGCATTATTA TAAAGAGTTT TCAGGAAGTT AAA 173

(2) INFORMATION FOR SEQ ID NO: 4287:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 307
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05100

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4287:

GATCAGAAAT GTGAAGCACA AATGCTGCTT CTCCCCCTCC TGTTCCCATG TCAGAGATGG 60
 AGAAGAAAGC ACAGTGAGCT GTTCACCAGT CCAGCGGTGA CCTCGGAGTC CTTTGTAACA 120
 GTGTTTCCAA TANCTTCTGC CAATAAAACA GAATTTNNGT TAGAACCTAT CTGCTGTCCC 180
 TCAACTAGTG TCTGATAGCT GAGAATGTAA TTCGTTTNTN TGTCTATTAG AAAATTAGGC 240
 AGGCACCACA GACAGTAGCA ACATAAAGGA ACCTGCTTAG AAGNGGTTTT NATGGGNNNN 300
 NNCNCNN 307

(2) INFORMATION FOR SEQ ID NO: 4288:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 244
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05102

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4288:

GATCCTTAAA TCTCCATTCT GTTTGTGGTT GCCCCCTCAA CCTCCCCTAC ACCCTTCCTA 60
 TTCTTTTNC A TTCTTCTTGC AGTTCTGGGA GTAAAGCTCC CAGCATATTT AGATAATAGG 120
 GCAGGGGAAG CACCCTCTTT CTTTCTAGAC TGGATTATGC TCACATGCTC CCTTGCCCTG 180
 ACATTTTTGT AAATNCTGTG CCCTTTGCTG TAGCTACACT TCAGATTAAA GTAGGAGAAA 240
 GAAA 244

(2) INFORMATION FOR SEQ ID NO: 4289:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 69
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05103

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4289:

GATCAAAGTT GGCAGGGGCT TGGCTGTGCC CTCAGATTCC GCACCAATAA AGCCTTCAAA 60
 CTCCTTAAA 69

(2) INFORMATION FOR SEQ ID NO: 4290:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 341
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05104

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4290:

```
GATCTTTNAT CCTTTGTTGC AAAAGTGTGG AACTTTTNA NAGCTTGGCA GATTNNACT 60
CCAGAAGCAC TTTATGAAAT GGTACACTGA CTAATCCAGA AGACATTTC AACAGTTTGC 120
CAGTGGTTCC TCACTACACT GGTACTGAAA GTNTAATTNN TTAGAGCCAA AAAACTGGAG 180
AAACAAATAT CCTGCCACCT CTAACAAGTA CATGAGTACT TGATTTTAAT GGTATAAGGC 240
AGAGCCTTTN NTTCTCTTTC TTGATAGATG AGGCCATGGT GTAAATGGAA GTTTCAGAGA 300
GGACAAAATA AAACGGAATT CCATTTTTTT NTCAGTGTA A 341
```

(2) INFORMATION FOR SEQ ID NO: 4291:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 395
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05105

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4291:

```
GATCTTAGAG TCACTTTGGA ATAAGNTCTT ACATAAATAC CCCCAGCCTT TTGAGAACGG 60
GGCTTGTTAA AGGACGCGTA TGTAGGGCCC GTACCTACTG GCAGTTGGGT TCAGGGAAAT 120
GGGATTGACT TGGCCTTCAG GCTCCTTTGG TCATAATTTT AAAATATGGG AGTAGAAAAC 180
AACANAGNNT GGAATGGACT CTTAAAACAA TGAAAGNGCA TTTATCGTTT GTCCCTTGAA 240
TGTAGAATTT TTTTTTGATT TCATAATTCT NCTGGTAAAT NTGNCAGTTA AAATGGTGCA 300
TTATGTATAT ATTANTATAA TTTAGANATT CCATTTTATA NTTNTTCTA TTCCAGGGTN 360
GCATAANGCA TTTTNNANTT TNGGGGTTTT GGNTN 395
```

(2) INFORMATION FOR SEQ ID NO: 4292:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 349
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05106

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4292:

```
GATCATATTT TGCAGTTTTA GTAAAAGGGA AATATTGTTA TACATTTNTT AAATATACTT 60
CCCCCATGAN GTGAAAAGGT TAATTTTNTCT GANTGTTTTA AGTTGAAGTT ACTTCATGGA 120
TGTCATACCC ATGANGTGCA TTTGGNTGAG ATAGCNGAAA TTTTTTTTTT AAAAGTTTAA 180
GTACCAAAGG TAGTCTAGTC TAGAACGATA AGTTAATACG TTTTGGCTTT NNTAATTTGT 240
ACTGTAACAT CCTTATACTT TCTATTTNAA GTATATCTGT TTCTTAAGTA AACAACCTAG 300
ATATTTTCCA CACCTTTTTT TTTTTTTNCC CNTGNNGGGT CCNGGGTNN 349
```

(2) INFORMATION FOR SEQ ID NO: 4293:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 257
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05107

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4293:

```
GATCTGCCAT TTATTAGCTG TGGGATTTTG GGCAAATTTN TTGACTTTCT GTGCTTCANT 60
TTTCTTAGCT GTAAAATTGG AAGAGTTGTT ATGAAAATNC ACTGAAAGTA TATTTGTATA 120
CATCATAGGA TAGTGTAAGA ATATAGTATG GCTTTGAGAA ATGTTTCATNA TTATNACTCC 180
CAGAGGAGTT TTAGGTATTA AGTGATGCCA AATATAATTT NTNAATTGTA TAATAAAAAAT 240
CTATATNCTT ACTGAAA 257
```

(2) INFORMATION FOR SEQ ID NO: 4294:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 212
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05108

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4294:

```
GATCACCATC CCAGTAACCT TCNAGTCGCG GGCCAGCTT GGGGGCCCAG AAGCTGCAAA 60
ATCCGATGAG ACTGCCGCCA AGTAAAGCCT TAGCCCGGAT GCCACCCCT GCTGCCGCCA 120
CTGGCTGTGC CTCNCCCGTN ACCTGTGTGT TCTTTTNATA CATTTATCTT CTGTTTTNT 180
CAAATAAAGT TCAAAGCAAC CACCTGNANA AA 212
```

(2) INFORMATION FOR SEQ ID NO: 4295:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 559
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05109

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4295:

```
GATCCAGTGG GGATGTTGTN ATGACTCAGT CTCCACTCTC CCTGCCCCGTN ACCCTTGGAC 60
AGCCGGCCTC CATCTCCTGC AGGTCTAGNC AAAGCCTCCT ATACAGGGAT GGAAACACGT 120
ACTTGANTTG GTATCAGCAG AGGCCAGGCC AACCTCCAAG GCGCCTCATT TATGAGGTTT 180
CTAAGCGGGA CTCTGGCGCC CCAGACAGAT TCAGCGGCAG TGGGTCAGCC ACTGATTTCA 240
CACTGACANT TAGCAGGGTG GAGGTTTGAC GATGTTGGGA TTTACTATTT GCATGCAAGG 300
AACACACTGG NCTCAGACGT TCGGCCAAGG GGACCAAAGG TGGNAAATTC GAACGAACCT 360
GTGGCCTTGC ACCNATCTTT TTTTCATCTT TNCCGNCATC TTGTTGNGC AAGTTTGNAA 420
ATNTTGGGAA CCTNGCCTCC TTTTGGTGN TGCCTTGNCT TGAAATAACT TNNTTATTCC 480
CAAGAGGAGG GNCAAANTTC AAGTTGGGAA GGTGGTTTA ACCGGCNTTC CAATTCNGGG 540
GNAANTCCCN TGGNGGGNN 559
```

(2) INFORMATION FOR SEQ ID NO: 4296:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 50
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05110

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4296:

GATCTCTATG TATGTGTGTA TATAAATATA GTTTTTTATC TATATATAAA

50

(2) INFORMATION FOR SEQ ID NO: 4297:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 548
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05111

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4297:

GATCAAACGA ACTGTGGCTG CACCATCTTT NTTCATCTTC CCGCCATCTG ATGAGCAGTT 60
 GANATNTGGA ACTGCCTCTT TTGTNTGCCT GCTGAATAAN TTCTATCCCA GAGAGGCCAA 120
 AGTACAGTGG AAGGTGGATA ACGCCCTCCA ATCGGGTAAC TCCCAGGAGA GTGTCACAGA 180
 GCAGGACAGC AAGGACAGCA CCTACAGCNT NAGCAGCACC CTGACGCTGA GCAAAGCAGA 240
 CTACGAGANA CACAAAGTNT ACGNCTGCNA AGTCACCCAT CAGGGCCTGA GCTCGCCCGT 300
 CACAAAGAGC TTCAACAGGG GAGAGTTTTA AGANGGGAGA AGTGCCCCCN ANCTGGNTCC 360
 TCAGTTCCAG CNTGACCCTC TCCNATCCTT TGGCCTGTGA CCCTTTTTTT TCCACAGGGG 420
 GNCCTACCCN TTTTGGNGGT CCTCCAGCTC ATTTTTTTAA CCTTAACCCC GNTTNNTTCT 480
 TCCTTTGGGG TTTAAATTAT TGNTTAATTT TTGGGGGNGG ATTGNTTTAA ATTAAAGGGA 540
 ATNTTTTN 548

(2) INFORMATION FOR SEQ ID NO: 4298:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 415
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05112

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4298:

GATCAGCGCC TGAGAAGTCG TCGGGCGATG TCCCCGCGCC GTGTCCCTCT CCAAGCNCCG 60
 CCCCTGGGTG GGCTCGGTGG AGCAGACCCC GCGCAAGAGG CTGCGGTGAG CCAATTTAGA 120
 GCCCAAAGAG CCCCAGGGA ACCTGCCGGG GCAGCGGACG TTGGAAGGGC GCTGGGCCTC 180
 GGNTGGNACC GTTCATGTAG CAGCAACCGG CGGCGNNTGC CCAGNAGCAG CGTTCGGTTT 240
 TTTTTTTAAA TTTNAAAAC TGTGCAATGT ATTAATAACG TTTTTTTATA TCTAAATGGT 300
 ATTCTGCACG AGANGTACA CTGGGTCCCA AAGGTGTAAG AGCTTTTTTA GAGTCATTGT 360
 ATTATAAAN TNNNTTAAAT CTNTTGGTTG AAATCTTNA GTGNNANAGT ATTNN 415

(2) INFORMATION FOR SEQ ID NO: 4299:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 156
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05113

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4299:

```
GATCTAATCT NAGATGTAAA CATTCAAATT NACCCTGTAG ACTNGGGTGA CAAGTTTCGN 60
TTGGTCATAG CTAGTACCTT GTATGANGAT GGTACCCTGG ATGATGGTGA ATACAACCCC 120
ACTNATGATA GGCCTTCCAG GGCTGACCAG TTTNAN 156
```

(2) INFORMATION FOR SEQ ID NO: 4300:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 310
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05114

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4300:

```
GATCTTACTT TCATCCAGTC TAATAGGTTT GGAGATTAAA CCTTTNCTCA ACTTGTGCTG 60
TTTATATAGC CAAGCTTCCG TCAATAAGGC TTCATTGTGA CTTTAACAAA CATNATCTTC 120
CCACATACCA GGAAGTATTG GACATTTATT TTACATGGGA AAAATTATTT GGAATAATAA 180
AGCAGNACT TTNCCTGANG TTGCAATTTA TACTGTATGG CTNCTNNTTC ATGTTTCATC 240
TAGGTTTTAN GAAGTGAAGT ATANGTAAAT NTNGGTTTCGT TAAATNGTGA TGGCGCTGGN 300
NATTACATGN 310
```

(2) INFORMATION FOR SEQ ID NO: 4301:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 231
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05115

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4301:

```
GATCACTCAA GCACAGGATT TTAAGACCAG CCTGGGCAAC ACAGTGAGTG AGACCCTGTC 60
TCTACAAAAA AATTAAAAAT TAGCTGGATA CTGTGGTGTG TGCCTGTAGT CCCAGGTACT 120
TGGGGCATTG AGGCAAGAGG TTACTTTNAG CTCGGGTGTT TGAGGCTATG ATGAAGTATG 180
ATTGTAGTGC TGTACTCCAG CCTGTGCAAA ANAGTAAAC CTTGTCTCAA A 231
```

(2) INFORMATION FOR SEQ ID NO: 4302:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 52
- (B) TYPE: nucleic acid

(C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05116
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4302:
 GATCGGGCCA CTGCACTCCA GCATGGGTGA AAAAGTGAGA CCCTACCTCA AA 52

(2) INFORMATION FOR SEQ ID NO: 4303:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 419
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05117
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4303:
 GATCACCAAC AGCCGTCCTC CCTGCGTCAT CCTGTGACTG CACAGGACTC TGGGTTTCCTG 60
 CTCTGTTCTG GGGTCCAAAC CTTGGTCTCC CTTTGGTCCT GCTGGGAGNT CCCCCTGCCT 120
 CTTTCCCCTA CTTAGCTCCT TAGCAAAGAG ACCCTGGCCT CCACTTTGCC CTTTGGGTAC 180
 AAAGAAGGAA TAGAAGATTC CGTGGCCTTG GGGGCAGGAG AGAGACACTC TCCATGAACA 240
 CTTCTCCAGC CACCTCATAC CCCCTTCCCA AGGGTAAGTG CCCACGAAAG CCCAGGTCCA 300
 CTCTTNGNCT CGGGTAATAC CTGTCTNGNT GCCACAAGA TTTTATTNA TTCTCCCCTT 360
 AACCCNAGGG CAATGTCANN NTATTTGGCA GTAAAAGTGG GGGTTACAAA ANCACTAAA 419

(2) INFORMATION FOR SEQ ID NO: 4304:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 75
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05118
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4304:
 GATCTCCCTA GGGCCCCACC TGGACCATTT TCCCTCCGTT TTATTTTGTT AATTAAATTC 60
 TTTCCAAATT GGAAA 75

(2) INFORMATION FOR SEQ ID NO: 4305:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 171
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05119
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4305:
 GATCTCAGTT CACTGCAACC TCCGCCTCN AGGTTTCAGGT GATTCCNTTG TCCCAGCTAC 60

TTGGGAGGCT GAGGCAGGAG AATCACATGA GCCTGGGAGA TGGAGGTTGC AGTGAGCCGA 120
 GATTGCACCA CTGCACCTCCA GCCTGGGCAA CGAGCAAACC TGCNNCTCAA A 171

(2) INFORMATION FOR SEQ ID NO: 4306:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 309
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05120

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4306:

GATCCCTGGT GTGTTGTGTG GGCCTCTTTA ACGTTTGCCA CTGAGCCTTA ACCTCACTGT 60
 ACTTCACTGT ACTTCACACG CATTGGTGTT AACATTTTAA TCTTAGAAGA CCCTGACCCA 120
 CTGAGGGTTT GTTGTGAGAA TTGCTGAAGC CACGTAGAAG CACCTTGAAA TCTGTAAAAC 180
 CACAAGAAAG TACTTTATAA AAGGTATCCT TATTTGAAGT GGATAAATCT TGTAACCTCGA 240
 AAAGTTGTGA TTTAGAAGAC AGGATTGTTT TTGAACATTA GGAATTAAAG GCTATATCTG 300
 GTCCTTAAA 309

(2) INFORMATION FOR SEQ ID NO: 4307:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 587
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05121

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4307:

GATCTAAAAA CTCATCTTTG GGGTAAAGAG TTAAGTGTCC AAAGGTTGTC ACAGTTCATG 60
 AGGTCAGAGG GAGCTAGCCT GGCACCTGGA CTCTGCCCAT CCACAGCTGA CAGATTCCAA 120
 CAGAAGTGTA TTTAAATTCT CCAGTAGACA ATGCTGGGTA AGGGAGGGGN TAGNNCTGGG 180
 TTATTAAGAT ACAGGCTGCT GTATTTTACA TTGGTTGTGG GGGAAGGGGA GCCTGGAGAA 240
 AACAAAGTCA CTATTCCTT TTTTGAAACA GGAAAAAAA TTATTTTTTG TTCAGTAAAA 300
 ATGGGTAGGN GAATTCCAAT GTCCCTAGCC ACAAGGGNCC AGTTTCCACT GAGGAAGTGA 360
 ACCAGTGGGG AACTCAAAAT TTCCAGNAA CATTGGGGGG GAGGGGGAAA ANTTGGGCTT 420
 TTCNCTTAAA TTTGGCAGNT NTTNCCAGT TGGGGNCNGG GNGGGGGGCT CCTGTTTTTT 480
 TTTTTTGGGG NTTGTGNTTA NTGNTNNTAT NGTACCGGNT TATTTTTGGC CCCGGGGTTT 540
 TTCTTGGGNT TTNTNAAGGG TTNCCCAAAA NTTTGGGTNA AAACNTN 587

(2) INFORMATION FOR SEQ ID NO: 4308:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 111
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05122

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4308:

GATCCCCCA TCTCTNCAGC ACTCTCTTGC TCCTCTCCCT TTTCATTTCC TTACTTTGTA 60
TCTTNTCAGA TTAGAACATA TTTTNNTTGT CATGACAAAG GACTCTCCAA A 111

(2) INFORMATION FOR SEQ ID NO: 4309:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 311
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05123

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4309:

GATCTNAACT CCTTGGCTTC TTTACTTAGT TCAAGCCCCA GCCTAGGAAA GCCAGTTACA 60
TAAAAGTTGG CTCAGGAGTC TTAGAGCTTT ACCTAAATAT GAGCCCAGAA AACGGAGGAT 120
GGGGGTGGGG CGCCTTCCTG GAGGTGACAC TTGATGGGGG TGTGTTCTGG TTACTGTTCT 180
AAGGCTGTGC CATCAGCTCC TTCCTCCCT GTTCATTCTG CATTCTCTAG TCAGTTGGCT 240
AAGAAGTGAC TCTTGCAACT AAAAAAATTA AGAAATTAC TTCCCCTCTA GGAGGTGATG 300
ATAGGGTTTT N 311

(2) INFORMATION FOR SEQ ID NO: 4310:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 366
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05124

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4310:

GATCAGAGTT TCTGTGGAAT TCTGTTTGT AAATCAAATT AGCTGGTCTC TGAATTAAGG 60
GGGAGACGAC CTTCTCTAAG ANGAACAGGG TTCGCCCCAG TCCTCCTGCC TGGAGACAGT 120
TGATGTGTCA TGCAGAGCTC TTA CTCTCC AGCAACACTC TTCAGTNCAT AATAAGCTTA 180
ACTGATAAAC AGAATATNNA GAAAGGTGAG ACTTGGGCTT ACCATTGGGT TTAAATCATA 240
GGGACCTAGG GCGAGGGTTC AGGGCTTCTN TGGAGCAGAT ATTGTCAAGT TCATGGCCTT 300
AGGTAGCATG TATCTGGTCT TAACTCTGAT TGTAGCAAAA GTTCTGAGAG NAGCTGAGCC 360
CTGTTN 366

(2) INFORMATION FOR SEQ ID NO: 4311:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 240
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05127

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4311:

GATCAGCTG ACCTGGCAGC GGGATGGGGA GGAACAGACC CNGGACACAG AGCTTGTGGA 60
GACCAGGCCT GCAGGGGATG GAACCTTCCA GAAGTGGGCC GCTGTGGTGG TGCCTTCTGG 120
AGAGGAACAG AGATACACAT GCCATGGTGC AGCACGAGGG GCTNCCCCAG CCCNTNATCC 180

TGAGATGGGA GCAGTCTCCC CAGCCCACCA TCCCCATCGT GGGCATCGTT GCTGGCCTTN 240

(2) INFORMATION FOR SEQ ID NO: 4312:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 96
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05128

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4312:

GATCTTTTCT CCATCATGTA CTTAGTATTT CCCATTAACC TACACACTGA TTTTNTGCT 60
ACTCCTTGTA GAAACAAAAT TNTGGNTGGA CTCAGN 96

(2) INFORMATION FOR SEQ ID NO: 4313:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 354
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05129

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4313:

GATCTGCTGG TCCTTGCAAG CAAAGCTACA GCCAGANTGT CCGTTTGANA CTCCTAGCTC 60
ATCTGTCACC GAGCTTNATC CGAATGTGCC ACGGAGCTTN CTCTCCACTT CCTCCGTGCA 120
GCGGCCCTGC CACAGCCCTC CCTCGGCACA CTTTGACCCT TTGTAGGGTT GGNATTAGCA 180
GGACTCGGCT ATTTAAAGCA CCAGTCTGGG GTCGCCTGGG CCCCTGCTGA CCCNTTCCTN 240
CAGAGCAGCC AGCCAGCCC GGGAACAAGA CGGACTTNCT ATNCCTTCGG ACTCACAGCC 300
TTTGAAGAGT CAAGCTNCAC TTNAAGCTCA CTCAGTAATA TCCTTTCAAT GNGN 354

(2) INFORMATION FOR SEQ ID NO: 4314:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 161
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05130

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4314:

GATCCGCCAC TTTGCGCCGG AGCTCGAGGA GCGGATGCAG CGGTTTGCCC AGCAGCATCA 60
GGCCCGGCAG GCTGCCTCTT AGCCACACAC CCTGGCCTGC TGTCTGCGT CTATCCATGT 120
GGAATGCTGG ACAATAAAGC GAGTGCTGCC CACCCTCAA A 161

(2) INFORMATION FOR SEQ ID NO: 4315:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 129
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single

(D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05132
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4315:
 GATCCTGGCT TTCCAGGGTG GGCAAGGGCA AGGAGCAGGC TTGGAGCCAG GGACCAGTGG 60
 GGGCTGTAGG GTAAGCCCCT GAGCCTGGGA CCTACATGTG GTTGCGTAA TAAACATTT 120
 GTATTTAAA 129

(2) INFORMATION FOR SEQ ID NO: 4316:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 227
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05133
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4316:
 GATCTTTGAG GTGAACAACT TGCCTGTGGA ATCGTGGCAG TAACTGTTTC CACTCACAGC 60
 CTGAAATTCT CCTNTGTCCC AAACCCCAGG GGGCCCCAGC AGCTTCGAAC CTACACCTGA 120
 GGGCTACCAG CAGGTGGCGC TNTGGCTTTG CACTGCAAAA ACTGGGGACC AGCCCNCTTC 180
 TNCCACAAAT AAAGCCCAAT AAAGCCTGAG AAGTGAGGAA AGCCAAA 227

(2) INFORMATION FOR SEQ ID NO: 4317:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 154
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05134
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4317:
 GATCTCCGTG GATGAAGTGC GTCTGGACTC TTAGATTCAT AAAATATTCG AGGGTTTGA 60
 AGTNACAGAC CCTCCCCTCT CCTCAGTGCA CTTTGGCATT TNCACGGTGT CTTCCCCGGA 120
 CAGCACAGCA ATAAATNGNG TGATTGCGTG GAAA 154

(2) INFORMATION FOR SEQ ID NO: 4318:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 181
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05135
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4318:
 GATCAGGTTT GGNCTTCTCC CACTGAGCAT GACAAGCACT CGAAAGGCTA AATCAACCAG 60
 AAACATCGAA ACAAAGCTC AGTACGATGC CAACTNTTAA GCCTGCAGGA NTCCTCCTGG 120

GTTGTCCCC CGGCACGNTC CACAGCTGGT NGACCCGGCA GTTCCTGGNT CCTTGTTTCAG 180
 N 181

(2) INFORMATION FOR SEQ ID NO: 4319:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 315
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05136

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4319:

GATCTGCCCT TGNTNGCCTC ATACCTCTGT GCTCCACACT GCGGCCAGGC CAGCTGAGTC 60
 CCTCCATCCG TGGATGCTTT CCTGCAGCTA TGTGGTATGG GGGTCATTCC TGCCTCTTGG 120
 CACCAGGTTG GGGGGCATGT GCTTGTGTTGGG CACCAAAGTG ATGGAACCCT CAGGTGCTCT 180
 CCGGGAGCCT GAACCTCCTG ACTGAGGAAC ATGGGCAGAA CATGTTTATT GCACAGAGTG 240
 GCGCGTGC GC ACAGGCGTGG CTGTACACGT GCTCTCAGCT CATCATCCTT TCCAGTAACT 300
 TTAATAAAAC ATCCN 315

(2) INFORMATION FOR SEQ ID NO: 4320:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 255
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05137

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4320:

GATCGNGNNA CTGGGGNGN GGCCCTAGGC ACTACCAGCA GCGCAGCTC ACCTTCGCCC 60
 TCAGGGCTGA CGACCCCTG CTCAAGCTCT TGCAGGAGGC TCAGCAAAGC TGAATTAAGT 120
 CAGGCAGAAG AGCACAGATG TGTGGGATTG GGGGAGGAGT GGGGACAAGA TTTTNTATCT 180
 CTAAGTGAAT TTTCTAAAAA TGTATTTTAT ACCGGCTTAT TCCTAGTATT GNATAAACTA 240
 GCGGGNTCAN TCAAA 255

(2) INFORMATION FOR SEQ ID NO: 4321:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 212
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05138

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4321:

GATCAAACAT GCATGGNTGG GTCCTCACGC AGACACACCC ACAGAAGGAC ACTAGCCTGT 60
 GCACGCGCGC GTCNATCTAC ACACACACAC AAGAGTTCAT AATGTGGTGA TGGCCCTAAG 120
 TTAAGCAAAA TGCTTCTGCA CACAAACTC TCTGGTTTAC TTCAAATTAA CTCTATTTAA 180
 ATAAAGTCTC TCTGACTTTT TGTGTCTTCA AA 212

(2) INFORMATION FOR SEQ ID NO: 4322:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 136
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05139

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4322:

```
GATCGAGTTA TTATGATAAC TGTGGTAATT TGTTGTTATA AATAGCAGTA ACATAGGAAG 60
GTTTTGGTAA CTNCTGACAA GAAATTTNAT GTAGAGAGTT AATTCGAGC ACATTAAAAT 120
GACTGTCCCA CTCAAA 136
```

(2) INFORMATION FOR SEQ ID NO: 4323:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 228
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05140

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4323:

```
GATCTGCATT ATTCTNGGAN AGTATTCAAG TGGTATCTTG ACTATTAAAC TACGTATAGT 60
GTTNNTGNAA TAGAAAGAAA ACAGCATTGG AATTGGATTC ATGTATCGTG GGATACAGGT 120
GTTATTTTCA GTGATGTACT TGCATTATTT TCTTTAGCCA TAGTAACTTT TTGTCACAAT 180
AACTAAGTAT TCAATTATAT ATAANGAGTG AAACATTAAA ATGGNAAA 228
```

(2) INFORMATION FOR SEQ ID NO: 4324:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 297
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05141

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4324:

```
GATCCTGCCA CTGCACTCCA GGCTGGGCAA CAGAGTGAGA CCATGTCTCA AAAAATAAAA 60
ATAAAATAAA ATAATATCAG GNTGCATACA TCAGAGGCTG TTCCTAGTGT AAAGGCACTT 120
TGGAGGGAGA AGACTTTTCA AGTTAGGCAG ACCAACTAAG AGGTCAGCTG ANGCACCTAA 180
CCAGTTGTAA GGAGGTGAAA GACAGCACCC CAAGANGAGA TGTGCAGGAN GGAGGAAAGA 240
GGCTTGGTCA TAAAGGNTGG AGGAATTCCA AAGTGACACT GANACAGGCT GCGTTTN 297
```

(2) INFORMATION FOR SEQ ID NO: 4325:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 90
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05142

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4325:

GATCGTTCTG CTGAGTATGT TAAGCTCTTT ATGACTGTTT TTGTAGTGGT ATAGAGTACT 60
GCAGAATACA GTAAGCTGCT CTATTGTAAA 90

(2) INFORMATION FOR SEQ ID NO: 4326:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 411
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05143

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4326:

GATCTGCTGC TGCCATTTTA ATCTTGCTCA TTAACCTTAC TCCTTTGAGA ATTCTTTAAC 60
AATATTTAAA ATTGGTAACA AAAATAGTTT AGCCATAATT GTTTAGCCAT GTGAGTTTCA 120
GGTTGGTACA CGTTCAGACA GAACTGCTGT ATCACATTCC AATTTTGAAT AGCCAGTGAG 180
CAATCAAGTG TAGAGAAATG ATAAATGGCC TAAGAAGGCA TACAGTGGCA TAAACGATGC 240
TCTTCCTAGT AGCTTAATAG GCCACAAGCT AGTTTCTGTT GCACTCTGAA ATAAAATATG 300
CTTTAAAAAT GTAGGGANCA GTGCTTAGAA AAGCAAAANC TAGGTGTGTC ATTGANATAA 360
TAGGCATAAN ACTTAAATGT TCCATAGGCC ACTATTTGGA AGGGGGCCTT N 411

(2) INFORMATION FOR SEQ ID NO: 4327:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 99
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05144

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4327:

GATCTACACA TTTTATAGT CATTTAAAT TGTATGACTC TGTCAAATNA TTAAAGTAAT 60
TTTGGTGGAT TTTTAAAAAT AAAAAATAA AAATAGAAA 99

(2) INFORMATION FOR SEQ ID NO: 4328:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 80
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05145

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4328:

GATCAGTTT TATAGCATCT ATGGACATAG AAAATCAGTC ACTGAAAAA ATAAACACAG 60
CTTTCAATGT CTCACTCAA 80

(2) INFORMATION FOR SEQ ID NO: 4329:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 263
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05147

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4329:

```
GATCCAGAAT CACCAAGACC TCCAGCCCTG GATGATGCCT TTTCCATCCT GGACTTATTC 60
CTGGGACGTT GGTTCGGTC CCGGTAGCCT TGTTAACCTT CAGAGGCCTT CAAGTCCTTT 120
CCACCTNTCA CCCATTGCCC ACCATTAANA AGCTTAGCTG NNTCTTGCCA CCTCAGGGGC 180
TTGGATATGT GGAATAGTGA ACTGGGNCCA TGTCAGTTTG TCACTNACCC AAAGTGACCA 240
ATAAACCTN NATTTATGNT AAA 263
```

(2) INFORMATION FOR SEQ ID NO: 4330:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 111
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05148

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4330:

```
GATCCTAANN CTGACAAGAT TCAAAGNACT AAATTTAATT CAGTCATNAA CACTACCAAT 60
TACCGTTTAT NGGTAGACAT CTTTGGAAT TTCCACAAGA GCAAGCTAGG N 111
```

(2) INFORMATION FOR SEQ ID NO: 4331:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 264
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05149

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4331:

```
GATCTGACCT GTTTATGTGTT GGCGCTTGTT GAAAACGAGC TTTCTTTCCC ATGATAGTGC 60
TTCGTTTTTG AAGTGTTGAA GCTGTGCTCC CCTNAAATCG TGGCAGGAGA GATTAAGGTA 120
ATTACAACAC TCAGTTCTAT GTCTTACAAG CACTTTGTCT TGTCTCTGCA AGAAAATTCG 180
ATNCCNGTCA TNTCCATAA AATACAGNCA TTTTACCANC ATANTATGCT TTGATTGANG 240
CAGCANTATG CTTTTGGGCA GTAN 264
```

(2) INFORMATION FOR SEQ ID NO: 4332:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 259
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single

- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
- (B) CLONE: HUMGS05150
- (ix) FEATURE:
- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4332:

```
GATCCTCCCG CCTCAGCCTC CCAAGTAGCT GGNATTATAG GTGTGTGCCA CTGTGCCAAG 60
CTAATTTTTT AATTTTTTNGT AGAGATGNGA TTTNACCATG TNACTCAGGC TGGTCTCAAA 120
CTCCCAGCCT CAAGCNATGC TCCCACCTCC ACCTCCCAAA GTGCTGGGAT TACAGGCGTG 180
AGCACCATAC CTGGCGCATG CATATTTTNN AAGAGTACCC ACTGGNGTCT AATATATAGC 240
CTGGGNTACC TGGGATGAN 259
```

(2) INFORMATION FOR SEQ ID NO: 4333:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 250
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05151

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4333:

```
GATCTAACCA ATTTGAATAT GACTTCCTAC TCCAACGTAT CACCAAAACA CTGAAAAGCA 60
ATAGCTGGTT TGGTTGTTAG AAATGGTGTA ATTAATGGTT TTNGTTAGTT CACTTCAGCT 120
TAATAAGTAT TTATNGCATA TTTGCTATGT CCTCAGTGTA CCACTACTTA GAGATATGTA 180
TCATAAAAT AAAATCTGTA AACCATAGGT AATGATTATA TAAATAACAT AATATTTTTC 240
AATTTTGAAA 250
```

(2) INFORMATION FOR SEQ ID NO: 4334:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 260
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05152

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4334:

```
GATCGCATT ATATAACATT CTTGAGGTGA CAAAATTATT GAAATGAAGA ACAGATTAAT 60
GGTTGCCAGG GATAGGGACT GGAGGGGGTG TGGGGTATGT ATGACTATAA AGGGATGACG 120
CAAGGAGTTC CTTTGTGCTG ATGGAACAGT TCTATATGAT TATGATGATT ACGATGTTGA 180
TTATAACATT TGATTATGAG GTTAAGCACA TGAGTCTTTA CCTGTNCTGA AGTTGTATGG 240
ACCTACATAC ACACAAATGN 260
```

(2) INFORMATION FOR SEQ ID NO: 4335:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 261
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05153

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4335:

GATCAAGACG AGCCTGCACC GCCTGAAGCC CGACACGGTG CCAGCGCCCT GCTGCGTGCC 60
 CGCCAGCTAC AATCCCATGG TGCTCATTCA AAAGACCGAC ACCGGGGTGT CGCTCCAGAC 120
 CTATGATGAC TTGTTAGCCA AAGACTGCCA CTGCATATGA GCAGTCCTGG TCCTTCCACT 180
 GTGCACCTGC GCGGGGGAGG CGACCTCAGT TGTCTGCCC TGTGGAATGG GCTCAAGGTT 240
 CCTGAGACAC CCGATTNCTG N 261

(2) INFORMATION FOR SEQ ID NO: 4336:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 145
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05155

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4336:

GATCCTCAGT AAACCTCTGAG AAATAATGAA TGTTGGTTGT TTTAAATGG TAAATNTTGA 60
 GGTATTATGT TATGTGGCAA TAGATAGCTA ATATATAACT NATTTGANTC AAACAATATG 120
 TTAANTTAA GCNCAGAAGA NTAA 145

(2) INFORMATION FOR SEQ ID NO: 4337:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 264
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05157

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4337:

GATCTAAGGA AAGAAATGGA GCAACTAGTG CTTGACAAAA AGCAAGAGGA GACAGCCGTA 60
 CTGGAAGAGG ATTCTGCAGA TTGGGAAAAA GAACTGCAGC AGGAACTTCA AGAATATGAA 120
 GTGGTGACAG AATCTGAAAA ACGAGATGNN AACTGGGATA AGGAAATAGA GAAAATGCTT 180
 CAAGAGGAAA ATTAGCTGTT CCTGAAATAG AAGAATAATC CTTAACAGTC TGCAAAGTGA 240
 CATTAAATTC TAGATGTTGA CAAA 264

(2) INFORMATION FOR SEQ ID NO: 4338:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 109
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05158

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4338:

GATCGGGGCG GGGAAACAGC NGGAAGANGG NCGCACCCGG TCTGACTACA ACANCCAGAA 60
 AGAGTCCACT CGGCACGTGG TCCNGCGCGT GAGGGGGGGT GTCTAAGTN 109

(2) INFORMATION FOR SEQ ID NO: 4339:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 195
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05159

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4339:

```
GATCAGTATA CAGTGTACGT AAACACACC ATCTCAAAC CCCGAAAGC AAAGCAAATC 60
AGGAAGAAAA GTGGAGGTTA GCAACACACC TNTGGCCCCA AAGNACAACC ATCTTGTTAA 120
CTATTGATTG CAGTGACCTG ACTCCCTGCA AGTCATCGNC TGTAACATTG GTAATAAAGG 180
TCTTCTGNCA TGAAA 195
```

(2) INFORMATION FOR SEQ ID NO: 4340:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 54
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05160

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4340:

```
GATCTAATAT TCAGGAATTT TTCTCCTAAA GACACCCAGT AAAAATATCA CAAA 54
```

(2) INFORMATION FOR SEQ ID NO: 4341:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 89
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05161

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4341:

```
GATCACTGTG TAAACTAAG TNTCTCTAAA TGTAATGCAT CGATTAGTG TCTGGAACAT 60
AATAAATATT TGCTCTCATG ATTGCTAAA 89
```

(2) INFORMATION FOR SEQ ID NO: 4342:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 89
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05162

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4342:
 GATCTACATC CCCATGCACC TATACGGACA TCTTTTCCGT TGTGGTTTGA GAATGTTTCT 60
 ATAATAAACC CCTCTGCTTT GTTCTTAAA 89

(2) INFORMATION FOR SEQ ID NO: 4343:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 102
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05163

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4343:
 GATCGTCTTG TATGGTGAAT TTTCTAGGAG CGATGATGTA CTGTAATTTT ATTTTAATGT 60
 ATTNGATTT ATGATTATNT ATTAGTTGNN TTAAATGCT TN 102

(2) INFORMATION FOR SEQ ID NO: 4344:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 248
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05164

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4344:
 GATCAATTNT GCANCANACA NCAATCTTAA CCATTTCCAG AAACACTAG TTATATTAGG 60
 CACGTTTTTAA AAACCTTAAAC AAAATAAAGG CCATCCCAA CCCTGGGCTG TTGTCGGGTT 120
 ATTTTGCAGC AGGGTTGTGT TCAAAANCTT CCTTTGACTC CCTGAGACTT TATCTNCTNC 180
 TTGCAGAGTA AGATGGAAAG CCANTCAGTG TTTGCNGTAA TGTAATACAG NGTAGTGCCA 240
 TTCNGGNN 248

(2) INFORMATION FOR SEQ ID NO: 4345:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 239
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05165

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4345:
 GATCCAACT TCTACAGCAA AAACCTTACTT CTTTTAGGAA AGACATACTT GAAACTACAC 60
 AACAAAAAGC TTGCTGCTTT CTGGCTAATG AAAGCCAAGG ACTATCCAGC ACACACAGAG 120
 GAGGATAAAC AGATACAGAC AGAAGCTGCT CAGTTGCTTA CAAGTTTCAG TGAGAAGANT 180
 TGAGAACTTT TCAGAGAAGA TTTATGAAAT AGCTAATAAA CATTGCCTTT TCTTTTAAA 239

(2) INFORMATION FOR SEQ ID NO: 4346:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 223

(B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05166
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4346:
 GATCAAAAAA TGTCTCCGCT CAGGGATTTA TGGTGGATTA TTGCAGACAN TGCTAAAAAT 60
 ATAGAGCACA AGACAAGTTT ACTAAATTAA AATTTTATTT TTTGAGAAAC TGTATTGT 120
 ATAAATTATC AAGATTTGTA GGCTTTCCTT TNGTAGAAAT AATTGTTTA TGTGCCAGAG 180
 AATTTCAATT TNGTTTTCAA CAATAAGCA TTGATAAGAG AAA 223

(2) INFORMATION FOR SEQ ID NO: 4347:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 52
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05168
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4347:
 GATCATTTGT TTATTAAAT GTGTCCTATT ACACAGTGAG TTAACCTCTCA AA 52

(2) INFORMATION FOR SEQ ID NO: 4348:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 334
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05169
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4348:
 GATCCGAGCG ACCATGGTGG CCCGGGTGTG GTCGCTGATG AGGTTCTCTCA TNAAGGGAAG 60
 TGTGGCTGGG GGCGCCGTCT ACCTGGTGTA CGACCAGGAG CTGCTGGGGC CCAGCGACAA 120
 GAGCCAGGCA GCCCTACAGA AGGCTGGGGA GGTGGTCCCC CCNGCCATGT ACCAGTTCAG 180
 CCAGTACGTG TGTACAGAGA CAGGCCTGCA GATACCCAG CTCCCAGCCC CTNCAAAGAT 240
 TTTACTTTCC NATCCGTGAC TCCTGGAATG CAGGNATCAT GGACGGTTGA TGTCAGNTCT 300
 NNTNGGTGGC CCCTTTCAA GGNCCNGGTG AGTN 334

(2) INFORMATION FOR SEQ ID NO: 4349:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 146
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05170
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4349:
 GATCCATCAA ATTGAA~~CA~~AT CTGTTGTAAT TTAAAATTTT GGCCACTTTT TTCAGATTTT 60
 ACATCATTTCT TGCTGAACTT CAACTTGAAA TTGTTTTTTT TTNCTTTTGT GATGTGAAGG 120
 TGANCATTCG TGATNNNGGC CTCNNN 146

(2) INFORMATION FOR SEQ ID NO: 4350:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 257
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05172

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4350:
 GATCTCAAGC CTCTTCTGAA CCCCAGGCTT TCTTGAGTCT CCATATGAGC ATTTGCCTCT 60
 GTGGGCACAA CTTCAAGTGT CCTTTGTGAG GAAATGTGCA TCTCTGGNTG GTGAACTTCC 120
 ATCCCTCAGA GAGAAATAGA AGCACAAATT TGAAACAAGC TGTCTGTCTG NGNNNNNNCT 180
 TTATGTCTTG GAACTTTAT TTATCCATCC AAGCTTTNTT TTTTTTTTAG CCTTTNNGGG 240
 CAGGNAACCA TCCAGGN 257

(2) INFORMATION FOR SEQ ID NO: 4351:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 73
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05173

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4351:
 GATCTGTCTA CTGAGAAGAC CCAAATCTTG GTTCTAAAT GCCATTCTTC AATAAAAGGA 60
 ATTGGGTTTC AAA 73

(2) INFORMATION FOR SEQ ID NO: 4352:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 73
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05174

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4352:
 GATCTCCTTC TCCNTCCTGT CCTGTCCTTG CCCCTCAGGA CTGCTGGAAA ATAAATCCTT 60
 TAAAATAGTG AAA 73

(2) INFORMATION FOR SEQ ID NO: 4353:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 306
- (B) TYPE: nucleic acid

- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS05176
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4353:

```

GATCCAAGCA GGGGGATGAA AAAGTCAGCA GAGAAATTCG AGACCATTTT CCAAGACTNT 60
CCCCTTCTCC TCAGGACCCC CTGGCTCAGT NCTTGAAAAA CGGTGTCATA TTTAGTCAGA 120
GGCCCCACCC CCAGGAAGCA TGGATGGGGA TGAAGGCACA GGCGTCTCCA ACCTCAGAGG 180
CCCTTTGTGG GGTGAGGACA CAGAGTGGGN AGANGAGACT GATGCAGGCC TACCAGTNCC 240
TGGCTTTTGT TCTGGGGCTG GAATAAAGAG GTGNCTTCAG CTGTTTGGNN CGAGAGGCAG 300
GGTAAA                                           306

```

(2) INFORMATION FOR SEQ ID NO: 4354:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 76
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS05177
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4354:

```

GATCAACTGG AACCTCTGTA TCATGCGGCT GAATTCCTT TTTCTTTAC TCAATAAAAG 60
CTACATCAGA CTGAAA                                           76

```

(2) INFORMATION FOR SEQ ID NO: 4355:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 52
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS05178
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4355:

```

GATCAGGCTT TTAGGACCTA GGAAACAAAT AAAGAGGAAT TTGTTGCTGA AA 52

```

(2) INFORMATION FOR SEQ ID NO: 4356:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 268
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS05180
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4356:

```

GATCCTTATT CTAGCTACAA GTCAAAGATA ACTCCTGGTC CAGACAAAAC ACCTGGCCTA 60
TCACAAGCTG ACTAAAAATC TGCACCTTGG GCCAGCGCAG GCAACAGTAA CTNTGACAGG 120

```

TTCAAATTAG ACCTCACACT TTCTACTCAT ATTCTAGTCA CTGGACCCAT CTGANTCAGT 180
 AATCCCTNCT GCCCGGTCCT GGAGTAACTT CTTAGAGATA TTATAGCAAG TGGCAAAANT 240
 AAAAGAGGGA TTTGCTANGA NTATCAAA 268

(2) INFORMATION FOR SEQ ID NO: 4357:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 114
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE; HUMGS05181

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4357:

GATCTCAAAT ATAAATTTGA GATTATACAT GTAGTTATGT ATAGNGNCAT GTAGTTACAC 60
 ATAGTTTTGT ATTTNCCTGT TTTTCTCTCA TATGAGCATT TNCTTATTAA NGTN 114

(2) INFORMATION FOR SEQ ID NO: 4358:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 179
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05182

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4358:

GATCTACACG TGTTGTTTTG TTTTNCCTTT ATTGATGCAC GNATGCTTTT GAACAGTAGA 60
 GNGAAATGCT AGACATGGAG AATCTGCTCT GTTGTCTCTN TATACATTTT TGTAGTTAAC 120
 AGAACACTGT AATGTGCCTT GGAGCTTAGT AACTNGTAAT AAATTCAATN GATATTAAA 179

(2) INFORMATION FOR SEQ ID NO: 4359:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 85
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05183

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4359:

GATCCTAAAT CCTATGTAGG CTNNGGTTAT TAGTGTATAT TTGTGTCTTA AAACAATTTT 60
 GAAAGTNAAG AAAATATTTT TTAAA 85

(2) INFORMATION FOR SEQ ID NO: 4360:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 194
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05184

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4360:

```
GATCTNATTT TGAGATTAAA AAAAATACTT CTAGCTTTAG CCAGGTGTGC ATGTNGCTGC 60
CATTTTGCAT TTTTGAATCA TCTTGTGTAA TTGTCACCAT GAAAGTGTTA CTCAGAATNG 120
TCATAGATTT NNTNTTCTTT GTGCAAAAC ATGGAATAATT GTCAGTACT TTGTTTTGAG 180
GTTTCCCCCG NNNN 194
```

(2) INFORMATION FOR SEQ ID NO: 4361:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 216
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05185

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4361:

```
GATCTGCTGT ATGTTACAGT TATGTAATTT GACTTGTTTC AAAATTATTA AAGTTTTAAG 60
TGTATGCATT CTACTGGTCA ATAAGTAAAT ATATTCAGGC TCTGAATGTA GACAGATAAA 120
TATATAAATA TAGAAAGTAC ATTTGTTAGA ATACAAACAA GAATAAAAAT TGAGTACAGA 180
NTGAAAACCT TATTAAATTT TATCACTCCA TATAAA 216
```

(2) INFORMATION FOR SEQ ID NO: 4362:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 333
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05186

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4362:

```
GATCAAACCTC AAGCTCACAC CTGTACCTGA TGGGAATGAA CATAATGTGA AGAAACTTAT 60
TTCCAGTGT AAACGCAGTT GTACAGAAAA AAAATGTTTT GGGTATAAAT CTGGGTTTTTC 120
AAAACCAGCT TTNTTCTATA TATAAATNAT GCTGCTATTA CAGATTTAAC ATTTNCTGTT 180
AAAGGAAAGT CTACATTTTC TGCCTGTNCA GAACTGTTTA ATAGCAGTNN CTCTTGAGTG 240
TATTTNCCCTT GGTATGTTTT TNAACCTATT TTCCTTNAAG CCGAAAATAT TGCCAATTGG 300
ATANGGTTAG CCTTANNAAG TNNAATAAAN NAN 333
```

(2) INFORMATION FOR SEQ ID NO: 4363:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 185
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05187

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4363:

GATCAGCCAG TCTCTTTCAT CATCAAGCAG ACATACTCAA GGTACCAACA CAGCAAAGGC 60
 ACAAATGTC TCTATATCAG TATTTTTCAT GGTATATGTG AGACCCATTA GTGAGGCATG 120
 AAATCAATTC TGTGAGTCAC AATGAACATT TGTCTAAAAA ACATAATAAA NTGTAAAATA 180
 CAAA 185

(2) INFORMATION FOR SEQ ID NO: 4364:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 108
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05188

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4364:

GATCCTTTCC CATTTATTCT GGGAAGATGT TTTTCAAAC CAGAGACAAG GACTTTGGTT 60
 TTTNTAAGAC AAACGATGAT ATGAAGGCCT TTTGTAAGAA AAAATAAA 108

(2) INFORMATION FOR SEQ ID NO: 4365:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 201
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05190

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4365:

GATCATTGG CTCTTTTTTT CTTCCAGAA GAGTNGCATC AACAAAGTTA ATTGTATTTA 60
 TGTATGTAAA TAGATTNAA NCTTCATTAT AAAATATTGT GAATGCCTAT AACTTGTTN 120
 NCAATGTGNT TGTGTGTGTT TCTAAGGACT TTTTCTTNGG NTTGCTAAAT ACTGTAGGGT 180
 TGAAAATGCT TCTTTCTACT N 201

(2) INFORMATION FOR SEQ ID NO: 4366:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 118
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05191

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4366:

GATCCTTCAT GGACANTATT CTAACGATA CGTAGACACT TACTTGGAAT TTTTGGACA 60
 TTATATTAAA TGAGTGCTAT CTGTGAAATT GGTATATTA GGTGGCTNNN NCTAATGN 118

(2) INFORMATION FOR SEQ ID NO: 4367:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 277
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single

(D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05192
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4367:
 GATCTGAGGT CTCAAGCTAG GAGAGACTGA GAATTTTAAT CAGTTTGGGC ATATAGTTTG 60
 GACTGAATCA CATCTGTAGT ACTTAGCCAA AGACAATTTG GAGGAGAATA TCAGCCTTCT 120
 GGAAGTAGCT ACTTCCTGNT CAATGTAAAG TGTCGCAGAT ATTCAATAAA ATGGCAACCT 180
 GTTATAATTT TTTGAATAT CAGCCTTCTG GNAGTAGCNA CTTCTGTAN CAAANGTAAA 240
 NGTTCGCAGN TATTCAATAA AATGGCAACC TGTTTTN 277

(2) INFORMATION FOR SEQ ID NO: 4368:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 209
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05194
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4368:
 GATCTCTTGA CAANTGTGTA TGTTAACTTT TTAGCACATG TTTTGTACTT AGTACACGAG 60
 AAAACCCAGC TTTCATCTTT TGTCTGTATG AGGTCAATAT TGATGTCACCT GAATTAATTA 120
 CAGTGTCTTA TAGAAAATGC CATTAATAAA TTATATGAAC TACTATACAT TATGTATATT 180
 AATTAAAACA TCTTAATCCA GAAATCAAA 209

(2) INFORMATION FOR SEQ ID NO: 4369:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 58
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05195
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4369:
 GATCGTGTCTG GAGACTNTNA CACAGTTTAA ACACATCAAT AAATACTTTA ACTTCAAA 58

(2) INFORMATION FOR SEQ ID NO: 4370:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 108
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05196
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4370:
 GATCGAGGTA GTAAAGGCCA TCCACATTTT AAAGGGTTAT TTGTCTNTNN TATAATNCGT 60
 TTGCTTTCAG AAAATGTTTT AGGGTAAATN CATAAGACTA TGCAATAN 108

(2) INFORMATION FOR SEQ ID NO: 4371:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 190
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05197

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4371:

```
GATCAAACAG GGACACAAAA GCAAGTATCA TGGGAGGAAC TTGAAATCTC TGNGGACAGC 60
AGAAGCTGAC TTCAACTCTN ATAATTGTGG CATCCATAAA TTGCAAATAT AGCCCTGAAT 120
AGATACACAC AAATGTCTAT AATGAAGGCC CAGCAGAATG GAATGTGTGA CCATCTTCAG 180
GAAGAAAATN                                     190
```

(2) INFORMATION FOR SEQ ID NO: 4372:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 241
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05198

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4372:

```
GATCAATCCC TAGTAAAGC CCTGGACACC TAGGCATGGG TGAGCTACTN TGGTTGGTAA 60
TACTCTGTGC ACACATCATT GTAGCCACAC ATCATTGCTG GGAGAATTAA GCATTATCCT 120
GAAGACTCTG CCAGGAGAGG ATAATTGGAA GTTCTCTTGG ACCTTACCTT ATGTGCCTTT 180
NTTCATTGCT GATTTTAATC TGTATCCTTT CACTGTAATA AACTGTAACT ATGNGTGCAA 240
A                                             241
```

(2) INFORMATION FOR SEQ ID NO: 4373:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 51
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05199

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4373:

```
GATCGTTCAT TGCCTTTCCA GGGTTATTTA GTAAAGTTTG TTGAAAACAA A 51
```

(2) INFORMATION FOR SEQ ID NO: 4374:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 153
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05200
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4374:
 GATCTCAGGT GATTACCCG CTTCTGCCTC CCAAAGTGCT AGGATTACAG ACATGAGCCA 60
 CCGCACCTGG CCATACAATT GCCTTCTATA TGTTTTTNAT TTAATATGAC ATTTGTATTT 120
 CCCCATGTTA TTAAAAAATT CTNTATAAGC AAA 153

(2) INFORMATION FOR SEQ ID NO: 4375:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 103
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05201
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4375:
 GATCACCCCA CCCTGTGAAG AGGCAGTTGG TGCTGGCAGT AAGCTGGTTT CCTCCTCTCC 60
 AGGGTTTTTC TAGTAATAAA GGTGTTNCTG TTGANGCCGT AAA 103

(2) INFORMATION FOR SEQ ID NO: 4376:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 390
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05203
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4376:
 GATCACATTC ATTCCATAGG TAGCTTTACG TGTGGCTACA ACAAATTTTA CTAGCTTTTT 60
 CATTGTCTTT CCATGAAACG ANNTGANGAA AATGATTTTC CCTTGCAGG TTGCACACAG 120
 TTTTGTATAT GCATTTCCCT AAANTTAATT GTAGTCTCNA GGATACAAAC CATAGTAGGC 180
 AATACAATTT TAGAATGTAA TATATAGAGG TATATTTAGC CTCTTTTAGA AGTCAGTGGA 240
 TTGAATGTCT TTTTATTTTA NNTTTTACAT TCATTAAGGT GCCTCGTTTT TGACTTTGTC 300
 CATTAACATT TATCCATATG CCTTTGCAAT ANCTAGNTTG GTGNAAGCT AACCAAGTGT 360
 TGTAACCANT AATCCNTTGT TTNGNGGTGN 390

(2) INFORMATION FOR SEQ ID NO: 4377:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 144
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05204
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4377:
 GATCACATGC AGGACTCTTT CTTAATGCAG CCTGAGACAA ATCTTGCAAT ATGAAGAGAT 60
 GATTTCAGG TTTTATTGAA TAAATGAATT GTAATTTTTA CTTGAAATTA TCTTATTTAG 120

TATAATAAAT ATTACAATAT TAAA

144

(2) INFORMATION FOR SEQ ID NO: 4378:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 386
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05205

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4378:

```

GATCCACAG CGAAACACTG GCCACTGGCT ACCAGTATTN CTTCCCAGAG CTAGGGGCTG 60
CCTTAAAGGA AATTGTAGCC TAAGTAGGTC GTGGCAAGGG CCTGAGGCCT GTTCCTCACA 120
GGCTTCCAGG TTAGGCACTG TGAATAGGCT CAGCTCCTCT AGAGAGCTGA AGCCATCTGG 180
TTCTTAGATT CCTCTCCCAG TCCTCTTTCC CATTGTTCTG TTGCTCCACC TTATTGTCTC 240
AAGGCCGTAA TCTCATCAGG TTGGGACATT AATCTTTTCA ACTCCTTTGT AAAGATTTC 300
CAGTTTGGTT TCTCTACATG TNCTGCAGCT GGCCNCAATT CTCCTTTNAC GTTGTGTAGA 360
GAATGNTCTG CAGTTTTTAGG GCAAGN                                     386

```

(2) INFORMATION FOR SEQ ID NO: 4379:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 174
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05206

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4379:

```

GATCTAAACG AAAAATAGTT TCTTGTTTAA ATTCACATAA GGCAATNAGA TATGGAAAGA 60
TGACAAGATA CGTATAAACA TTGGTTTGCA TTTTATTAAA TNATTCTAAT GCAAATCTTG 120
TATAAAGAAC CCATGATGTT TTGTAACTTT CTAATTAAAA TGTTCAAAAT GAAA      174

```

(2) INFORMATION FOR SEQ ID NO: 4380:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 207
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05207

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4380:

```

GATCTTGGTC AATAACTGGG AGATGGACAA ACTAGAGATG GAAGATGCAG TCACATTTTT 60
GAAGACTAAA ATCTATTGAG TAGAAGCTCT TCCTGTTGCT GCTGTAAATG TGCAAAGCAC 120
ACAATAAAGT GAAAATCAAC CTTTTCATAT TAGGAGACAT GCATTGTGTA AAATTAATAA 180
AGATGACAAG TCAGTTGTCA ATGGAAA                                     207

```

(2) INFORMATION FOR SEQ ID NO: 4381:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 189
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05208
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4381:
 GATCAGCACC TTGGCCGTGA TTCCCAAGGT CCCAGCCAAA GCAAAGGGCC AGTTGTTTCA 60
 GTTTAAACAG ACATGTCTTT AGTCTAATAA AATTAGTTAA CTGCCAGTAA AGTTATTTGT 120
 TAGCTTTGNT GAAAGCTATG NNGGTATCTT TCCCTAATCA TCAAAGTAAA TAAAAANTCA 180
 TTTCTNAAA 189

(2) INFORMATION FOR SEQ ID NO: 4382:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 502
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05209
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4382:
 GATCTGTTCT TTTTAAGTTG ATTCGGGAGT GGCATTCTTT TATACCCAAA GACTGTAGTG 60
 CATCTTGAAG AGCTCAAAGC ACATGACCGC ACAAATGCTT ACAGGGTTTC CTCCCGAGTA 120
 ATCCAATCTC ACTCCCCTTG TAAGGGAATT CTGGGGCAGC TATGGTTTGA GTATGCAGTT 180
 TGCATCGTGT TTCTACCTTT AGTACCTTGC CACTCTTTTA AAACGCTGCT GTCATTTCCT 240
 ATTTCTTAGT ACTAATGATT CTTTGATTCT CCCTCTATTA TGTCTTAATT CACTTTCCTT 300
 NCCTAAATTT GGTGATTTGG CATATCAAAT TCTGGTAAAA TNGTTTNGG TAAANCATAT 360
 TTACCCNCAC TTGGGGTAAA TCCCAATTCC TGGNTAGGGN CTTTTAAAAA NGGGTTTTTN 420
 NTTAATNGGG NNAATCCAAT TATTAAAAAN GGGGGGNCCN TTTTTTNAAG GNGGAANAA 480
 ANGGNGAGGG GGNAGNTNGN GN 502

(2) INFORMATION FOR SEQ ID NO: 4383:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 383
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05210
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4383:
 GATCTCTGGT CAGAGTGAAC TCTTGCTTCC TGTATTCAGG CAGCTCANAG CAGAAAGTAA 60
 GGGGCAGAGT CATACGTGTG GCCAGGAAGT AGCCAGGGTG AAGAGAGACT CGGTGCGGGC 120
 AGGGAGAATG CCTGGGGGTC CCTCACCTGG CTAGGGAGAT ACCGAAGCCT ACTGTGGTAC 180
 TNAAGACTTC TGGGTTCTTN CTTTCTGCTA ACCCAGGGAG GGTCTTAAGA GGAAGGTGAC 240
 TTCTCTCTGT TTGTCTTAAG TTGCACTGGG GGATTTCTGA CTTGAGGCC ATCTNTCCAG 300
 CCAGCCACTG CCTTCTTTGT AATATTAAGT GCCTTGAGCT GGAATGGGGA AGGGGGNCAA 360
 GGGTCAGTCT NTCGGGGTNG GNN 383

(2) INFORMATION FOR SEQ ID NO: 4384:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 258
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05211

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4384:

```
GATCAAACTG TTGGAGGAGA AGCTGAAGGA GGCTGAGACC CGAGCAGAGT TTGCCGAGAG 60
GTCTGTGGCA AAGTTGGAGA AANCCATCGA TGACCTAGAA GAGACCTTGG CCAGTGCCAA 120
GGAGGAGAAC GTCGAGATTC ACCAGACCTT GGACCAGACC CTGCTGGAAC TCAACAACCT 180
GTGAGGGCCA GCCCCACCCC CAGCCAGGCT ATGGTTGCCA CCCCACCCA ATAAACTGN 240
TGTTACTAGN CTNTNAAA 258
```

(2) INFORMATION FOR SEQ ID NO: 4385:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 174
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05212

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4385:

```
GATCAATGAA AGGAGACATC TGGAGTGTGC GTGCTTCTTC AGAGGGACGG GTGATGGGCA 60
GATTGGAAAA AGCACC GCAG ATGGGAACCT TAATCTTTCT TTTCTAAAAT TGATGCTATG 120
AAAATTTGCG TTTTCTGTAA CTTGTAAAAA CTAAAGTTG CTTGTCTACT GAAA 174
```

(2) INFORMATION FOR SEQ ID NO: 4386:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 62
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05213

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4386:

```
GATCAGGCAA AAATAGTTTT CCAAAGTTAT TTTTAATAAA GTATATACAA AATTCTTATA 60
AA 62
```

(2) INFORMATION FOR SEQ ID NO: 4387:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 217
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05214

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4387:

GATCTAACGC CACACCTCCG TGAAAACACA ANTCNCACAG CAGGAACCAC NTGAACCTGG 60
 ACATCAGCAG TTTATTCAGC AGATGCTTCA GGCTCTTNCT GGAGTAAATC CTCAGCTACA 120
 GANTCCAGAN GTCAGATTTC AGCAACAAC T GGAACAAC TC AGTGCAATGG GATTTTNGAN 180
 CCGNGAAGCA AACTTGCAAG CTCTAATAGC ANCAGGN 217

(2) INFORMATION FOR SEQ ID NO: 4388:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 95
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05215

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4388:

GATCTATGCA GACAACGTG TATTCTGTTT TATAACAGTT TGTTTGAATT TACTTACAGT 60
 TAAAAAATTT AAATATATTT ATGTTTGTAC GGAAA 95

(2) INFORMATION FOR SEQ ID NO: 4389:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 192
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05216

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4389:

GATCTGGGTG AAGGGGAGAA CTGCCATCT TATCCCTACC CCCCCGGGGC CCTCAAGCTT 60
 ATTTTCTTGT TGAAGAAACA CAAAACCTC GAGATTCATG TACTGTATGT TGGAGAAAAA 120
 AAATTACCTA ACTGTTCCCC CAAAAAGTC AGTATNTTTT GTACTTTGTA AAAGTGTTGG 180
 TAAAAAATGA AA 192

(2) INFORMATION FOR SEQ ID NO: 4390:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 135
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05217

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4390:

GATCTGCAGC CTTTTGGGTA TCAAATGGGT CAAAACCATG GGACCTGCCA CCTCCCATCA 60
 GCAATTCTGG AAATGCACTA TTTCTACTGG TGNTCTTGCT TTTTTTTTTT TTNNATTTTC 120
 TNGNTGAANT GCCAN 135

(2) INFORMATION FOR SEQ ID NO: 4391:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 270
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05218
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4391:
 GATCGTANTT AGTCCTTTTC ATCTCAGCTG CTCCTTAAAT CAGTGCAACC CCTCCAAATT 60
 AATGTGAATT GAAACTTGCA TTGCTTTTCA ACTTAATTGA ATACTTACTA TATGTGAACC 120
 ACTGCACAAA ATAGGGGAAG AAGATGTGGG AGACAAAGAT GTGGAGCCTG TCTTCAATAA 180
 ATTTACAGTT AGTTTCAGGG TACATTGTTT TNCTNCTGCT GTTAATTAGG TGTATCCCCA 240
 AGACAATAAA TACATGGNTG GGAAAGTAAA 270

(2) INFORMATION FOR SEQ ID NO: 4392:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 123
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05219
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4392:
 GATCAAAATT GGNTAAATTC TATTGTAACA ATTCGTTGG TCATTTTGGG CCATAAAATT 60
 TTTTGTGAAT AGGAATTTGT ATAAAGCATT ACTCTTTTTC AATAAATTGT TTTTAAATTT 120
 AAA 123

(2) INFORMATION FOR SEQ ID NO: 4393:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 288
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05220
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4393:
 GATCNCACCA GTNTNCTNCA NCCTGGGCCA CAGAGCAAGA CCTTGACTCA AAAACAACAA 60
 CAACAACAAC AAAAATTCTT GAAGATTTTG CATTCTGTCC CACTATCCAT TGGTTTTTCAT 120
 GTCAAGATAA TGTGAGAAAT TCTTTACAAT TGCTTCCAGA AGGANTAGCC TTTTGATTTA 180
 GTGCACAGGT GTCCAGTCTT TTGGCTTCTC AGGCCACAT TGGAAGAAGA ATGCTCCTGA 240
 GCCACACATA AAATACACTA NTGNTAACAA CAGCTGATGG AGCTTAAA 288

(2) INFORMATION FOR SEQ ID NO: 4394:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 156
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05221

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4394:

GATCCTNCGT TCTNTTGTTA TAGATTAGTT TGCGTTTCCT ACAATTTTAT ACACATGGAA 60
 TAATACTATA GGTACTCTTG TTTGGCTCCT NCCATCCAGC ATAATAAGTT TGAGATTCAT 120
 NCATGTTGTT ATATGCGTCT ATGTTTCATTC CTNNNN 156

(2) INFORMATION FOR SEQ ID NO: 4395:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 149
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05223

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4395:

GATCCTNCTT TTCCTTCATG NCAGCACAAG TGCTCACCGG GGCCAGAGCC AGGGCATGGA 60
 TATGACAAGC AGGGCAGCCT GGACACTGCC CTCACAGGAC AGCGCCAATA ACAATACAGT 120
 GTCTGAGTAT CTCCAGGGGA AAAAATAAA 149

(2) INFORMATION FOR SEQ ID NO: 4396:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 204
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05224

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4396:

GATCCTGCTT GGNCTATCAC AGAGCATTGA CCATTGGCTT CCCTCATCTG AGNCGTGGGA 60
 GAGCANACTG GATAGATGAG AATTGTTTTA AAACAATTGT GAACAGAAAC TGNAGATGGT 120
 ACAGTNCTAC ATCTGCACCT GCCCTTTTTT CATACCACAA AAGTATTTTT NNAGTACTGT 180
 ACTGGACTTT TTGCNAGTNN CTAN 204

(2) INFORMATION FOR SEQ ID NO: 4397:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 213
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05227

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4397:

GATCCTGATG TATGAGGAAA AAGCGAGAGA AAAGGAAANG CCAACAGGCC CCCCAGCCAA 60
 GAAAGCTATC TNTGAGTTGC CCTGATTGTA AGGGAAAAGG GATGATGGGA TTGAAGGGGC 120
 TTCTAATGNC CCAGATATGG AAACAGAAGA CAAANTTNTA AGCCAGAGTC AACAAATTAA 180

NTAAATTACC CCCTCCTCCA ANAANTANTT TNN

213

(2) INFORMATION FOR SEQ ID NO: 4398:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 67
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05228

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4398:

GATCCATCTG AGGAATCACT CTGTGTTGCA CTTATGCCCT CATAAAANAT ATTTATTGAA 60
GAATAAA 67

(2) INFORMATION FOR SEQ ID NO: 4399:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 70
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05229

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4399:

GATCAATGCA TTTNATACGG ATATAGACCT AGGGCTCTGG AGGGTGGGGN ATTGTTAAAA 60
CACATGCAAA 70

(2) INFORMATION FOR SEQ ID NO: 4400:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 148
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05230

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4400:

GATCTCTATA GAGGCTGGAA TGGCCACAGA GAATCTAAAT NTGAAAACAA ACATGTCCTG 60
AGGGTGTGCT CCAATACCAC CCNNTAATAC TCTCCTGAGA TGTGAAGGCT NGAAATGAGA 120
ATGCCATNTT ATTGTNACTT NCAAACGN 148

(2) INFORMATION FOR SEQ ID NO: 4401:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 210
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05231

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4401:
 GATCCTTGTT TTGAGCTCTC AGAATCACTC AGACAACATT TTGTAACGTC TGCTGTTGCT 60
 TTCTACATAC ACCTTATAAA GTGACATTTT AAAAGAAATA AGGTGCCACA GTTTTAAACC 120
 AGAAGGTGGC ACTCTGTGGC TCCNTGTAGT ATTATAGCTA TACTGGGAAA GCATAGATAC 180
 AGCAATAAAG TACAGTAATT TTA CTTTAAA 210

(2) INFORMATION FOR SEQ ID NO: 4402:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 71
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05232

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4402:
 GATCCTGTTG CAACTGTGA ATATTCTGAT GATGCCAGTA CAGTTTGATT TATTAAATGT 60
 GGGTCCTCAA A 71

(2) INFORMATION FOR SEQ ID NO: 4403:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 240
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05233

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4403:
 GATCTGAACC CGTCTCCCGG GTGCTGTAAA TAGTCTGATA AACGTTTACA CAGTCTAAAA 60
 TTACCCTTTA TATTTGCTGA ATACAACCTCA TCTTTTGTAG TTTAAATTT CTATTGTTTT 120
 GGAGCTAGCT GTGAGTTTCT AGAAGTGTAC AGAGTTGCTC CNGTGTTCCC GGGTCANGTT 180
 GAGTAGGGAA TAAATAAATC TGATGCNGCC TCCTGAGGCT GCCGGGGGGT TTCTGCTAAA 240

(2) INFORMATION FOR SEQ ID NO: 4404:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 67
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05234

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4404:
 GATCAAGNAT ATTTTTTATT TTTAAGAAAG CATAACCAGC AATAAAAATA CTATTTTTGA 60
 GTCTAAA 67

(2) INFORMATION FOR SEQ ID NO: 4405:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 173

(B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05235
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4405:
 GATCTAATTC CAAGGACTTC TCCACAGCTA AGTNAGATGC CTCANACCAT TAGGTGATGC 60
 TTTGGACAGA ACAGAGTATT TNAATCTTGT GTTTAAAGCA ATTCCTTGGC TTCGGCTCCT 120
 CACCACTTTC TATGCCAGTN TCCCATTTAT GTCCCTAGTA ATGCCTATGC AAA 173

(2) INFORMATION FOR SEQ ID NO: 4406:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 263
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05236
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4406:
 GATCCCAGCA GTGATGTTGG TTGAGGCAGC AAACAGATGG CAGGATGGGC ACTGCCGAGA 60
 ACAGCATTGG TCCCAGAGCC CTGGGCATCA GACCTTAACC ACCAGGCCCCA CAGCCCAGCG 120
 AGGGAGAGGT CGTGAGGCCA GCTCCCGGGG CCCCTGTAAAC CCTACTNTCC TCTNTCCCTG 180
 GACCTCAGAG GTGACACCCA TTGGGCCCTT CCGGCATGCC CCCAGTTACT GTAAATNTGG 240
 CCCCCAGTGG GCATGGAGCC AAA 263

(2) INFORMATION FOR SEQ ID NO: 4407:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 65
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05237
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4407:
 GATCAGAATG TTCTAAATNT TGACTAGTTA CTTTTTATTA TGAGTTAATA TAGTTTAGCA 60
 GTAAA 65

(2) INFORMATION FOR SEQ ID NO: 4408:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 124
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05238
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4408:

GATCTCTATA TTAAATNCTA AAATGGGATT AAAAGAAGAG TTGGAGAATT CACACTTATT 60
 GAGTAACTGA TGTCATACAA CCTGGAATTT CTGAATTCCA AATAAATAAA TTTCACCTCTT 120
 TAAA 124

(2) INFORMATION FOR SEQ ID NO: 4409:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 234
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05239

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4409:

GATCTATGCA GTATACATTT TNCAGGCTGA AATTCAAGGG GAATCATTCT GATTATNCTT 60
 ACTACAAATG GAGATGGCTA TTATGAAACA GCATGAGCAT GAGCCTTTNA TCTNTNATAC 120
 TTAGTGATAT ACTTTGCTTG AAAATCACTC AGCAAAGTAG TTCACATGAT GTGTTATCAT 180
 ATTTGANGTG TGGNTTNTCT CAAAATCATT GNCTTTAAGG NGCTCATTNC TGAN 234

(2) INFORMATION FOR SEQ ID NO: 4410:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 191
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05240

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4410:

GATCTNNTTG TATGTNACGT GTTAAGGGCT TGTTTGGTAT CCCACTGAAA TGTCTGTGT 60
 TGCAGACCAG AGTCTGTTTA TGTCAGGGGG ATGGGGCCAT TGCATCCTTA GCCATTGTCA 120
 CAAAATATGT GGAGTAGTAA CTNAATATGT AAAGTNGTAA CATAATACA NTTAAATGG 180
 ANATGCAGAA A 191

(2) INFORMATION FOR SEQ ID NO: 4411:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 308
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05241

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4411:

GATCACCTGA GCTGCCTCAG ATTCCATTTG GTCCTCTCCT TCCTGGAAGG CTCCTTTTGA 60
 TGTTTTGTTT TAATCCCAA TGTCTGAATG TTTTGCAGTG TGAGGGGGTT TGAGCCCCTT 120
 GTTCATTCTC CTCCTTTTTT CCTCCCGCTT CCCTCTCCAT GAAGTGATTC TGTGACAAT 180
 AATGTATACT GCGCGTNCTC TTCACTGGTT TATCTGCAGA AATNNCTCTG GGCTTTTNTC 240
 GGTGTTAGAT TCAACACTGC GCTAAAGCGG GGATGTTCCA TTGAATAAAA GAGCAGTGTG 300
 GTTTTAAA 308

(2) INFORMATION FOR SEQ ID NO: 4412:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 210
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05242

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4412:

```
GATCCACCCA CCTTGGCCTC CCAAAGTGCT GGGATTACAG GCGTGACACN CAAACCCAGC 60
CACCAATTTT ACTTTAGGTA AACTTTTATT TTCAAGCTTT TGTGTTGTT GCAAGTGTAA 120
ATCTGTTTTA TAAAATGTTC TATAAATATA ACCACTATTC CTTGTAAGCT ATTTAAAATA 180
AATTTTAAAG TCTTTCAAGT AAACACCAAA 210
```

(2) INFORMATION FOR SEQ ID NO: 4413:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 337
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05243

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4413:

```
GATCTGAATT TAGGNACATT TCCTTTTTCT GTGGGAATCA CAAGAGTTTA TCCACTAAAA 60
AAAGATATGT AAAAAAGATA CTTTCCAGCA CATAAATAAA GGCTGGAATT TTACAACCTG 120
ATGTATATAT TAGACAGTTC TAGGATGTTA GTTCCCTNCA TNCCAGAGCT ATGCTTGTGA 180
TACAGCCCCT TTTCTTATAA AGTCAGTTAG ANGGACTTCC TTAACAATGA CTATTATAAT 240
GNCTTNCTTA AAATACAGTT TTGTATTCTG TCAATGCAAA TATAAGACAG GTTGTGCCNT 300
AATCATGTAN CANGNNTATT TTGNAGNTTT ACATATN 337
```

(2) INFORMATION FOR SEQ ID NO: 4414:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 120
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05244

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4414:

```
GATCAGCTAG CTACCTTCTA CTTTCCATTT TTCAAGTGGA TTGTTCTCTT AATTGTATA 60
TAACCTGTTG TCTAAATTTT ATGTACAGTC TTTTATAATA AACCATTCTC CTATATGAAA 120
```

(2) INFORMATION FOR SEQ ID NO: 4415:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 185
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05245

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4415:

GATCTGGCTC ATCCATCTGC AACTGACCA CGCTAAGAGC TGTCTGCAGT GATGGAAACC 60
 TTCTCTAGCT GTGCTGTCCT CTATAGTGGC ACCAGCTGCC TGTGGCTACT GAGCACTTCA 120
 ACTGTGGCTG CAGAGACTAT GTTAAATTGT ATTTAATCAT AATTAATTTA ATTGTAAACA 180
 ACAA 185

(2) INFORMATION FOR SEQ ID NO: 4416:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 58
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05246

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4416:

GATCTTAAAA TTCGTTTGCC TTTTAAAGC TATATTAAAA ANGTATTGTT GAATCAAA 58

(2) INFORMATION FOR SEQ ID NO: 4417:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 109
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05247

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4417:

GATCCACAAG ATTNAGAAAA TATTATATAG TTAGATAATA ACATTCTTGT CTAATGATAT 60
 CCNANCTNGT TACAAAATTN TTTAAACTT AAATAAAAAC ATGCATCTN 109

(2) INFORMATION FOR SEQ ID NO: 4418:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 363
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05248

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4418:

GATCCCTCTA CAGAGCTTCC CTGACTCATT CTGAAGGAGC CCCATTCTTG GGAAATATTC 60
 CCTAGAAACT TCCAAATCCC CTAAGCAGAC CACTGATAAA ACCATGTAGA AAATTTGTNA 120
 TTTTGCAACC TCGCTGGACT CTCAGTCTCT GAGCAGTGAA TGATTCAGTG TTAAATGTGA 180
 TGAATACTGT ATTTNGTATT GTTTCAATTG CATCTCCCAG ATAATGTGAA AATGGTCCAG 240
 GAGAAGGCCA ATTCCTATAC GCAGCGTGCT TTAATAAATA AATAAGANAC AACTCTTTGA 300
 GAAACANCAA TTTCTACTTT GAAGTCATAC CAATGAAAAN ATGTATATGC ACTTATAATT 360

TTN

363

(2) INFORMATION FOR SEQ ID NO: 4419:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 266
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05249

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4419:

```
GATCACATTC AGGATAAGTG TACAGAAGAA AATACGGGTG TTTACTCTTT AGGGAAGTGG 60
AAACACTCCC TGCATTGATG TACATTTTAA GAATGGCACT TTTGATACAT GTTATCATAA 120
AGGTGCTTAA TAGAGCTGAA TTAAAGTTTT TCAAATCTGT AAACANNGCA AAAANGTAAA 180
TTGTAGTCAT TTGATTATTT TTTAAATNGG NGCTTTATAT TTNGTNCTCA CTCAGAGTAA 240
AAGCTGCAAT TTATTGTNCA CCCAAA 266
```

(2) INFORMATION FOR SEQ ID NO: 4420:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 104
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05251

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4420:

```
GATCAAAGCA ATTTACAGAT TCAATGCTAT TCCTGTCAAA CCACCTATGA CATTCTTCAC 60
AGAACTAGAA GAATAAACTA TTAAAAGTTC GTATAAAGTT TAAA 104
```

(2) INFORMATION FOR SEQ ID NO: 4421:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 256
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05252

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4421:

```
GATCTCAACA GTGTGGGGTG AACAGAAGA CTGTATCTTC AGCCTTTTTT CTATAATCAT 60
GGATGATTTG GTCTTATTCA AAAGGACCGC ACATATTAGT ACTCTTAAGA GCATCTTCCA 120
AGACTCCAGC AGNGAGCATT TAGAGAGTGT GTTGTCTTCC AGAGTCATGA ATGATTTTGT 180
TTAGCTATCA GGTCTACTAC CTCTAAGGAC ATTTCATAGC AGCATCTCTT GAGTTGCCTG 240
CATCAGTGTG GTGGTN 256
```

(2) INFORMATION FOR SEQ ID NO: 4422:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 255
- (B) TYPE: nucleic acid

(C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05253
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4422:
 GATCTGAATA TAATTCTGGT AAACAGCTGT CTTCAATTTT NTCCTCTAAA GAACTTAATT 60
 CATTGTGTAC ATAAATATA AGGAAATCTT TGTACTATT TACAGTAACC ACAATCTAAA 120
 TATTTACATA TACCCAAAAT TANCTTATGC TCATATATTA GGATGTGAGA NTATCATCTG 180
 TTTATGGACA CATGAAACCT CCTAATGACC TGGAATTGTT AGANTATNTG ACTTTTTATA 240
 TGCAAAGTTT TTCGN 255

(2) INFORMATION FOR SEQ ID NO: 4423:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 58
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05254
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4423:
 GATCCCCGGT GGTTTTGTGC TCAAAATAAA AACTGATTAA ACCTTTGTGG CTGTGAAA 58

(2) INFORMATION FOR SEQ ID NO: 4424:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 234
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05255
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4424:
 GATCCTTTTC TTCTCTTATA AATCATCCTC TTAATGAAAA TTAGCCTAAC AAAAGTTTGG 60
 AGACTGGAAT CCTACTTTGA GCCACTGACT TGAAATAACT CTTTGGCAA GTTGCCTGAC 120
 ATCCTGTCTT ACCAAGGTGG CAGGTTTGCA TTTTACTGC TTAACACATT TTTNTTTTTT 180
 TAACCATCTT NANCCAAATT NATCATATNN GNGGTNGGCC TANCAGGNTT TTNN 234

(2) INFORMATION FOR SEQ ID NO: 4425:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 200
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05259
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4425:
 GATCCACCTG CCTCAGCCTC CCAAANTGCA NGGTATTACA GNCANGAGNT TCTGCGTCTG 60

GCAATAATGT AACTTTGAAG CTTAAAAATT AATCCCAGTT TGTAGCAATA ACAGAAGACT 120
 ATCTACAACG GAAGAAAGAA GCAACTGCCT TACAGTTCTG TAAAGANTTG GCAAGAAAAT 180
 AAAGCCTATA GTTGCCGAAA 200

(2) INFORMATION FOR SEQ ID NO: 4426:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 84
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05260

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4426:

GATCTAGTCA TCTTCTGTAG CTACATAGTA CTCCTAATGT TAAGATTACC AAATTCAGCA 60
 ATAAAGCCAA AATCAAAACT GAAA 84

(2) INFORMATION FOR SEQ ID NO: 4427:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 75
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05262

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4427:

GATCATAAAC CAGTGNNATC AGACCTATGT GTAATAAGAC TCCTGTTAAT ACAAAAATAA 60
 AAAGCTAAAA GCAAA 75

(2) INFORMATION FOR SEQ ID NO: 4428:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 424
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05263

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4428:

GATCTCAAAC TTGTCTTAAA TCAACAACCT TCTACTCATG TTAATGTCTT GATTAAATAT 60
 CACAATGCAA AATACACATT AAGTAAAAGA ATTCCAGCTG GTAAACATGA CCTGGACATT 120
 TGTAAGAATA TATTTAATAT ATGTNCACCC ATTATGTTTT TAGGTAACAG GNGGNNAAT 180
 GCANCNCAAT TTTTTTCTC TTGAAAGGCA CTGTCATTTA ANCATAAACC TGGAGTACTC 240
 GAAATAGAAT TCAGGTTTAC ANGATGAAAG CGTGTGGAGA AGTGTGAGAT GGCAGTGGNA 300
 GCATGTGTGT TTCTAAAANG TAAAANTCTC AAGGAAACCA NGANATGGCA TGCTTTTACC 360
 CATCTTNCCT TAGTGAAAAG NGTGCTTCAG GTTTGANATT GTTTTAAGAA AGNTAGCCGG 420
 GNTN 424

(2) INFORMATION FOR SEQ ID NO: 4429:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 122
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05264
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4429:
 GATCTGCTCC CTCTCGCTCT CTCCTCCAC TACTTTTGG AACAAAGTGA TGGCAGAATG 60
 CGGTGGTGGT GGGGGTCTTT TGTACTGTTG GATTAATAAA ATGATTNNAA ATTNCNNNTA 120
 AA 122

(2) INFORMATION FOR SEQ ID NO: 4430:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 85
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05266
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4430:
 GATCAGTATA ATTTTNNAAA GTTACTTTGT NAGAGGCACA AAAGGGTTTA AACTGNTTCA 60
 TAATAAATAT CTGTACTTCT TCAAA 85

(2) INFORMATION FOR SEQ ID NO: 4431:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 187
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05267
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4431:
 GATCACGTAG ACATGTAACC CAGCAGCAGT TTGCTTCTGT TGTCCACTGA TTAATCAGCC 60
 TATGTGCCTG AACTGGTCT TGCAGTACAA CTGNAAGCCA AAACAAGGTG GAAGATGTCC 120
 TGAATTAAGA TGTTTTACAC ACATTGTATT ACAGAGACAG CCAATAAATC TACTATTTGA 180
 TTTCAAA 187

(2) INFORMATION FOR SEQ ID NO: 4432:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 211
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05269
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4432:

GATCTTTTAT TTNTGAAACA CTCAAACACC TTACAAAGTG CTGAGTAGGT AATAGTGACC 60
 CAACTTGTGT GCTAAATGAT TATTTGTTTA AATCTGTACA GTTTTAAGTG TTCACTTATA 120
 CAAAGAGTGT ATATACTTTC AAATAATTNA AAATGCTTTA NATTATNNGG CTAGAAATTG 180
 CNGTTTTNAA TAAATGTGAA TNTNTNAAAA N 211

(2) INFORMATION FOR SEQ ID NO: 4433:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 62
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05270

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4433:

GATCTGTTGT TAGGATTCTA GTTAACACTT TTNTTTTTAA AAATAAGGA CAAATGAACA 60
 AA 62

(2) INFORMATION FOR SEQ ID NO: 4434:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 98
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05271

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4434:

GATCCCAGGG GAGGGGTCTC TCTCCCCATC CCAAGTCATC CAGCCCTTCT CCCTGCACTC 60
 ATGAAACCCC AATAAATATC CTCATTGACA ACCAGAAA 98

(2) INFORMATION FOR SEQ ID NO: 4435:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 239
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05272

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4435:

GATCGTATCC CGCTGACACA GAAGGNTGCC GGGTGGGGGG AGGGCACCCA TGAAATTCAA 60
 AGAAAACCCCT AAGTGTGGAT GTTCAGAATT TTGGAAAAAT GTCAGTGAAG TGATTGAAAG 120
 AGTGCCTGGC ATGCAAGGNT AAGAGGTTCT TTACATAACA TTTCTTAAAT GCTTAATAAA 180
 CGTTTGTGTC ACTTGGTTTT GACATTGCCA ATGGGGTTTG AACCAGTGCT CTCTCTAAA 239

(2) INFORMATION FOR SEQ ID NO: 4436:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 102
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single

(D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05273
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4436:
 GATCTGCAAT GACTGGAAC TGCCGGTGCC TGGGGTGCCT TTCCCCCAGC CAGGGTCCAA 60
 AGAAGCTTGG CTGGGGCAGA AATAAACCAT ATTGGTCGGA AA 102

(2) INFORMATION FOR SEQ ID NO: 4437:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 333
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05274
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4437:
 GATCTTCTTT TGGGAGGATT TGATGTAAGT NACTGACAAG CCTCAGCAAA CCCAAAGATG 60
 TTAACAGTAT TTTAAGAAGT TGCTGCAGAT TCCTTTGGCC ACTGTATTTG TTAATTNCTT 120
 GCAATTTGAA GGTACGAGTA GAGGTTTAAA GAAAANTCAG TTTTGTNCT TAAAANTGCA 180
 TTTAAGTTGT AAACGTCTTT TTAAGCCTTT GANGTGCCTC TGATTCTATG TAACTNGTTG 240
 CAGACTGGTG TTAATGAGTA TATGTNACAG TTTAAANAA AAGTTGGTAT TTTATANGCA 300
 CAGTCAATNC TNATGGTAAC TTTTGGTNGT CTN 333

(2) INFORMATION FOR SEQ ID NO: 4438:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 72
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05275
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4438:
 GATCAATGTT TCAGCCCTAG ACTGCCCAAG GAGTATTATT AATTATTAAT AAATGAATTC 60
 TGTGCTTTTA AA 72

(2) INFORMATION FOR SEQ ID NO: 4439:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 100
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05276
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4439:
 GATCAGATTA TTTTACTACC AACAGTTATA GTTTGAAAGT CCAACTGTAT TAATTGACTG 60
 ATAATATGAT AATATAGAGA TTAAATTGTT TGTNTTCAAA 100

(2) INFORMATION FOR SEQ ID NO: 4440:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 96
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05278

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4440:

GATCACAAAG AGCAAACAAA TGTCAATATC TCTTATGAAT GGTGAAAAAA AGGAATTAAT 60
 CGATGCAAAT AAACCTTTCA CAGTATTACT TTAAAA 96

(2) INFORMATION FOR SEQ ID NO: 4441:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 116
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05279

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4441:

GATCTAGCAA GCCATGGCGA CAGGTAGCAT TTNTAAGATG NTGNACAGGA GCAGNATTAT 60
 CCCCAGAT ATTACAGGGT AGACACGTTT TAACTAAAAT CAATCAAGNT AACTTN 116

(2) INFORMATION FOR SEQ ID NO: 4442:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 411
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05280

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4442:

GATCTGACAT ATATCACCTT CTGGGNTATT TACTCATTGT GCCAGGACCT GGCATTTTCA 60
 TGTGCCCTTG ACCAAGTGTT CAGAATTTGC TTGNCTCTAA CCTGGAGAGC TTCTTAAGTG 120
 ATGCCCTTC ATGGAGCTTC TATGACAGTG AATAAACTAT TAATTGAAGG AAAATGTTAT 180
 AATTAANGTA TCTATTTGCT GCATTGTATA TGGATTAANT GNTAAAAAAC AAGTAATCTA 240
 CCCTCAGAGC CATGTATTTG AGAATGCTTT CAATCATATT TNCCTATGNA CTTTTTTTTT 300
 ATAACTTAG TTTTANGCCT ATGTTGTAAA ANTGGGAAGG TTNGTAAACN TATGTTTGGN 360
 AAAANTAGGG GAAATGTNGG CTTAAANTTN TTTTNCANTT ATNTTNGTTT N 411

(2) INFORMATION FOR SEQ ID NO: 4443:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 90
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05281
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4443:
 GATCTATCTG GGGGTCCTAG TGTACCACAA GCTGAACCTG AAGATTTGGA AAAATGTTTC 60
 TAATTAAATA AACAGAGCA AAAAGACAAA 90

(2) INFORMATION FOR SEQ ID NO: 4444:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 342
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05282
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4444:
 GATCTACATT TAAGTGGAAA AATTAGCAGT ATTTGAAAGC TCAGTTTNAA TCATTGTCTT 60
 AACTTCAGAT ACAAATAACT GAACAGAAAG TTTTAACCTT TAATATCTCA TGTNCTGTTT 120
 NTTATTCAGT ATTTTCCTNT ATGTTAATTC AATTATATAC TTCTGAATGG CACCTTACTT 180
 TTTGGAAACA AATCTTCTGT TATTACAAA ATAATAATTT TTANAAAACA TTTAAAAAAA 240
 ATCCAAAGCT GCTCTCGATA ATAGTCAACA TTTGCATATA TATGGAATTT CTTACTTTNT 300
 TTCTCCCAAA CTCTATTTAA TAAACTNATT TTAATGGTTA AA 342

(2) INFORMATION FOR SEQ ID NO: 4445:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 61
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05283
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4445:
 GATCACAAAA ATGTATTTTA TAAATGTTT TGTACAATAA AGTTACACCT CAAAGTGTA 60
 A 61

(2) INFORMATION FOR SEQ ID NO: 4446:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 301
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05284
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4446:
 GATCATTATC AGTAATTTCA TAGCAACTGT TCTAGNGTTT TGNGTTTTTA AACAGAATT 60
 AGGAATTTGA GATATCTGAT TATATTTTTC ATATGAATCA CAGCTGTTGA CAATGTCCCA 120
 TATATTTAAG AAATTATATC ATACTGATAC TATTTGTAAC ATTTTGATTT GATTTAATCT 180

CCAGGGACAG AAATAATTCA TTGGTAAAGN GTAATAATGC GTTTTTTAAA AATGCTTTGA 240
 GAGGTAATTA CTTGCATATG AGAGAAATAA AACATTTGGC ACATTGTTTA CAGGTGTGAA 300
 A 301

(2) INFORMATION FOR SEQ ID NO: 4447:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 153
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05285

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4447:

GATCAGACCG AGAAGCAGGG TGAGAGATTC TAACGACTGG ATGCTGCTAG TAACACATTG 60
 TTTGTATTGC TTTACCATTT TTAAGTGTTA GATTGAGAT GAACATACAT TTTGCTTTTT 120
 TAATAAATGT TTAAGAAGAG TCCACATAAG AAA 153

(2) INFORMATION FOR SEQ ID NO: 4448:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 216
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05286

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4448:

GATCACTACA GTGAAGTATT ACAGTTGTAC AGTTCCAGT CTGGCCTTGG CTTGCTCGGA 60
 TAAACTTTG TATGTATTTT GTATGGCATA GATTCTATAT TGTAATGATG TCCTATGCAA 120
 AAAGAAAAAT TAACGAAATT GTAAATTTTA TTGTTTTAAC GTGTATGCAT GTTTAGTGAC 180
 GTTTACATTT TGAAATAAAA TTTATGATTC ATTAAA 216

(2) INFORMATION FOR SEQ ID NO: 4449:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 172
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05287

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4449:

GATCTGGAAA CGTTTTGTAC CGATTATCCA CAGCAAAACA AAAATAAGCT TTTATTTTAT 60
 TAATAATTTC GTTCCTCTTG TGCCCAATCA AATCTTTTGA GAACAACTG CAAGAAAAGC 120
 TAAGAATGTT TTAGAGTGAA CTAAATACAG ACATTGCTTA CTTGTTTTGA AA 172

(2) INFORMATION FOR SEQ ID NO: 4450:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 289
- (B) TYPE: nucleic acid

(C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05288
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4450:
 GATCTCCCTG TGGCAGCAGG CATGGAGAGT CAGGGCTGCC TTCATGGCAG TAGGCTCTAA 60
 GTGGGTGACT GGCCACAGGC CGAGAAAAGG GTACAGCCTC TAGGTGGGGT TCCCAAAGAC 120
 GCCTTCAGGC TGGACTGAGC TGCTCTCCCA CAGGGTTTCT GTGCAGCTGG ATTTTCTCTG 180
 TTGCATACAT GCCTGGCATC TGTCTCCCTT TGTTCCTGAG TGGCCCCACA TGGGGCTCTG 240
 AGCAGGCTGT ATCTGGATTG TGGCAATAAA AGTACTCTGG ATGCTGAAA 289

(2) INFORMATION FOR SEQ ID NO: 4451:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 121
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05289
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4451:
 GATCTCTTAA AAATACCACA GTTTGTATTT TTCCTTTAAG GAGTAAAGAT TTGCCTTTAA 60
 ATAAGTTGGT ATTTTCCTGG CTTTCGTTTA ATACAATAGA AAATAAAGTA TTACACCGAA 120
 A 121

(2) INFORMATION FOR SEQ ID NO: 4452:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 293
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05290
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4452:
 GATCAATGTG ACGGCAGGGA AATGTATGTG TGTCTATTTT GTAAGTGTAA AGATGAATGT 60
 CAGTTGTTAT TTATTGAAAT GATTTACACG TGTGTGGTCA ACATTTCTCA TGTGAAGCT 120
 TTAAGAACTA AAATGTTCTA AATATCCCTT GGACATTTTA TGTCTTTCTT GTAAGGCATA 180
 CTGCCTTGTT TAATGTTAAT TATGCAGTGT TTCCCTCTGT GTTAGAGCAG AGAGGTTTCG 240
 ATATTTATTG ATGTTTTTAC AAAGAACAGG AAAATAAAAT ATTTAAAAAT AAA 293

(2) INFORMATION FOR SEQ ID NO: 4453:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 336
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05291
 (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4453:

```
GATCTAGGTC CTTCTATCTC GTCCCTCTAC AGATGTATTT TCCACTTGCA TAATTCATGC 60
CAACACTGGT TTTCTTAGGT TTCTCCATT TCACCTCTAG TGATGGCCCT ACTCATATCT 120
TCTCTAATTT GGTCTGATA CTTGTTTCTT TTCACGTTT CCCATTTCCC TGTGGCTCAC 180
TGTCTTACAA TCACTGCTGT GGAATCATGA TACCACTTTT AGCTCTTTGC ATCTTCCTTC 240
AGTGTATTTT TGTTTTTCAA GAGGAAGTAG ATTTTAACTG GACAACTTTG AGTACTGACA 300
TCATTGATAA ATAAACTGGC TTGTGGTTTC AATAAA 336
```

(2) INFORMATION FOR SEQ ID NO: 4454:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 252
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05292

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4454:

```
GATCTGCTGC AACCATTATC TTNGTTCTTG AGTTCATCAT GCATTAAAA TGAGATGCAA 60
GAGCATTTAG CATAACATGT AAATATGGAC CTTTTAAAAT TAAAATACTA TTGGAAGTGC 120
TTTCAACTCA GCCACATCTT AGCTATTAGT TCTTTGTGTT GTCTTATCAA AGTTTAATGG 180
ATACAGTTCC ACAGTTGTTG ATGTGTTTGT GTGTATATTC GATTNNNNNA AAGATGGTAG 240
TAAGTCAATA AA 252
```

(2) INFORMATION FOR SEQ ID NO: 4455:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 57
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05293

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4455:

```
GATCATACCA CTCCACTCCA GCCTGGGCAA CACAGCGAGA CTCCATGCTC CCCC AAA 57
```

(2) INFORMATION FOR SEQ ID NO: 4456:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 564
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05294

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4456:

```
GATCAGGCTC TCCTCATGCT GTTTAGTGAT GGCACGTGCC AGGTGAACTN CTACGGGGAC 60
CACACCAAGC TGATTCTCAG TGGCTGGGAG CCCCTCCTTG TGACTTTTGT GGCCCGAAAT 120
CGTAGTGCTT GTACTTACCT CGCTTCCCAC CTTCCGCAGC TGGGCTGCTC TCCAGACCTG 180
CGGCAGCGAC TCCGCTATGC TCTGCGCCTG CTCCGGGACC GCAGCCCAGC CTAGGACCCA 240
```

```

AGCCCTGAGG CCTGAGGCCT GTGCCTGTNA GGCTCTGGCC CTTGCCTTTG TGGCCTTCCC 300
CNTTCCTTTG GTGCCTNACT GGGGGCTTTG GGCCGAATCC CCCAGGGAAT CAAGGGACCA 360
GCTTTACTNG AGTTTGGGGN CGGGNTTGTT TTCGNTGGNT TCCTACCCCA TNTCCAAGAT 420
AAGCCTTNAG CNTTAAANTCC CANGNTAGGG GCGGTTATTT NATGGACCAA TTTTAAATTT 480
ATTNTAAGAA ANTTTNTTTA NTTGGGGATT TTAAGCCCAA AGGGGGGCCC TCNTCCTNAG 540
GTNANAAAAAN AATTTTTTTAA GAAA 564

```

(2) INFORMATION FOR SEQ ID NO: 4457:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 112
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05295

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4457:

```

GATCTTTTATT TTTGATTAAT TTGTTCTGAT TTTTGGTTT GTTTTTTAAG GAACTGTAAT 60
GAACAAATGT CAGGATATCC AATGCCAAAT AAAGATGTTG TATTTATTTA AA 112

```

(2) INFORMATION FOR SEQ ID NO: 4458:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 152
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05296

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4458:

```

GATCACACCC NGGTGAACCC ANGGTGCTAA GANTGAAAAT AACCTTGGTG AAATGTACAA 60
NTTAAAGACA AAGAACTACA TGTGAAGATA GACTTGCTTT CTATTTTNAAT ATCAGTAGTA 120
GTACTGTTGC TGAATAATAC TAGGTTTTNN CN 152

```

(2) INFORMATION FOR SEQ ID NO: 4459:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 323
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05297

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4459:

```

GATCTGGTGC TGCTTTCAGA TGTTTATCTT TTATTTTTTT CCCTTAAGCT TTAATCTTCG 60
TCATTGTCTT AAAGTCAACT GGTGTTTCTT GTTCATTGAC TTTGGTACGA TGGTGCTTTG 120
CAAGGATGTA TTTATGTTAT AATGGCCAAC ATTTGGTCAG CCCTTGTTCA CTTATTCACT 180
TCCCTCCNTT TGTAATAATA GTGCTTTAAT TATAAACTGT ATAAAAATAC CTTGTATAAA 240
CCCCTTTTTT GATTATTACA ATAAATAAGC TGAATTGTAA CAAATGAAAT TTGATTTTTG 300
TAATAAAACA GTGGAAAAGT AAA 323

```

(2) INFORMATION FOR SEQ ID NO: 4460:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 229
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05298

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4460:

```
GATCCTTTTT AGTTAATACT ATGACAGTAC TAAAAATATA TGAATAACAT TTCAGATACC 60
ATTATATTAA AATATTTGTG TATGTGTACA AAAGCGTTGA TAAATACTAA TCTTTAAAGT 120
TTGTGGAGTT CCTTTATTTG TAATATATGT GCTCTTAAAA GCAATGGGAT GTGAAATTAT 180
GAAAGTATTT TATTGTTTCAT AGAAATAAAA AACACAGTTA CTTTGCAAA 229
```

(2) INFORMATION FOR SEQ ID NO: 4461:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 135
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05300

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4461:

```
GATCTGGACC TAATGAATTC CTCAGAAAAT TCCCATGAGT CAGCTGATTT CAGTGCTGCT 60
GAACTAATTN CTGTGTCTAA ATTTCTTCCT ATTTCTGGAA TGGAAAAGGA GGNCATTCTG 120
AGCCCACTG NNNNN 135
```

(2) INFORMATION FOR SEQ ID NO: 4462:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 102
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05301

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4462:

```
GATCTGGGTA AAGGACCATC TGGGGATTCT TTGTACTATT TTTCTTCCG CAACTTTTCA 60
AGTTTCAAAC TATTTGCAAA TAAAGAGTTT TTGTTTGTTA AA 102
```

(2) INFORMATION FOR SEQ ID NO: 4463:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 189
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05302

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4463:

```
GATCACATGG CTAAGGTGGT GTGTGCCAGG TTTCTCCACT GTAAAATTAG GAATTTTCCC 60
TTTGAAATTA ACAAGAATCT TCCACTTTGA AGCTGTGTGA ATGTCTTATT CTTAAAATTT 120
TGCCTACTGA TTTTNANNNN CATCATCAAT GATTCTTGCT TATAACAGGT ATTAATGTTA 180
TGCTTGAAA                                     189
```

(2) INFORMATION FOR SEQ ID NO: 4464:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 364
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05303

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4464:

```
GATCATGTTA ATTTAAAGCT TTATACACAT TGTTGTTTTT GCTGGTCTCA TCTTTGGTAA 60
TATGCTATAC CCCACTGCTG CCCGACACTG CCCTNTAGCT GCAGAGCTGG ATTAGCTGTT 120
GACCATTGTA TGCTGTTGTC TGTCTGGCAG GGACTGAATG ACCTGATGTC AGATTTAGAT 180
TCTTCCTGGG GATTACACAG CTATGAATGT ATTTGCTTCT AAAACCTCCC AAAGTGAATC 240
TAATCTTAAA ACTACAAGTT GTAAGTATTC TGAAATTGGG AAACATTTAT NTNAAATGCA 300
ATCAGGNNAG TGTTGCTTTT TACAGCATAA TNAATATANG TNTCAANNAN NGTGGANGGT 360
NGTN                                           364
```

(2) INFORMATION FOR SEQ ID NO: 4465:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 229
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05304

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4465:

```
GATCACTTGA TGTCAGGGAG TTTGAGACCA GCCTGGCCAA CATGGTGAAC CCCATCTCTA 60
CTAAAAATAC GAAAATTAGC TGGGTGTTGT GGTAGGCACC TGTAATCTCA GTTACCTAGG 120
AAACTGAGGC AGGAGAATCA CTTGAACCTG GGAGTTGGAG GTTGCAGTGA GCCAAGATTG 180
TGCCACTGCA GTCCAGCCTG GGTGATGAAA CAAGACTCTT TGTCTCAAA 229
```

(2) INFORMATION FOR SEQ ID NO: 4466:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 496
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05305

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4466:

```
GATCTCTAAG GAACTCCTGT TGCTAAATAT GAAGAGTATG GAACATTCAT ATAGTCTCTG 60
```

TGAAGCATGG GGGGAGGGAA GACATTTCTN TTNCTTATAG GCTTTATGCT CAAATGTCAT 120
 AGTCTCCTTT CAAAGAATTG TGTTGCATTT TAAATGCACC CAGCTTAAGT AGAAGACATT 180
 GAAGGATGCA TTAATTTTCA GGAACATTTT TGGATTATGA AAAGATTCCC AATTGAAAAA 240
 ATTATTCAAC AAGTAAAAGC TAAGAAATTN CATTGAAATC ATAATGGCAG TTAAAGCATA 300
 AATTTGATAA ANAATAGCTG TGTACTACTA AATTAATTAG GAAAATTCNA TTCCAANCCC 360
 AAGNNGAAGG AGTCCANGGT GGAAATATCC GGTTTGGTTT TATTTTGNNC TTAGGNTGAN 420
 GTTTTCCTTT GGTNAACCGN TTGNNTTTTT TATTTAANAT NGNTTAATTA TTTTNGGTT 480
 AANGNTATGC CCCNTN 496

(2) INFORMATION FOR SEQ ID NO: 4467:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 415
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05306

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4467:

GATCTTGGGA GATATTAATA TCTGCTGGCC AGACCTAAAA AAAACTGAAG GCCCAAGGAA 60
 AGTGACTGGA CTCACTGGAA AGTNTCTAAC AAATACTTTG GATTCCAAAG TATTTCCAAT 120
 ACCTTGAAGA TTCCTTTGAA AACATCAAAG CACAACTCA AATCTGCACA AGATTACAAA 180
 AGCACAATTT TGGTGTATT TTTAGANTNC AATACACAAA GCTATTGTTC ATTTCTNTCA 240
 GCAAGCATT TCCTGGGTAG TAGTAATAGC TTAGGAATCA AATGCCACTT TTNTTTTCC 300
 TTTTTCAC TAGTTTGA TACCACAANT NACAGGTNAG TCAGTCCTCC CAGAGGNNA 360
 NGNCAGTCC TAGGGNGGNA TCAACAGNC TNGCAAGNCA AGNCCCACAA NTTNN 415

(2) INFORMATION FOR SEQ ID NO: 4468:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 209
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05307

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4468:

GATCGCAAT TGAAATATGG ATATTTGTAC CAGGCTGCGT GTTTTTCATT TTAAACACAC 60
 AAGATTTAAT TGAAAGGACA TCAATAATCA TAATTGTGTA TTAAACAGGT GGTNTNTAT 120
 TAGTTTCTN GTGTTTCAGA CTTTATGCAG CCATATAAAC TGTTCTCTAG GCATGCTGTG 180
 ACATTTTAAT AAAAAGCAA AGGAGCAA 209

(2) INFORMATION FOR SEQ ID NO: 4469:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 353
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05308

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4469:

```

GATCGCACCT TTTATAACCAG AGACCTGAGG CAGATGAAAT TNATTTCAT CTAGGACTAG 60
AAAAACTTGG GTCTCTTACC GCGAGACTGA GAGGCAGAAG TCAGCCCGAA TGCCTGTNAG 120
TTTCATGGAG GGGAAACGCA AAACCTGCAG TTCCTGAGTA CTTTCTACAG GCCCGGCCCA 180
GCCTAGGCCC GGGGTGGCCA CACCACAGCA AGCCGGCCCC CNCTCTTTTG GCCTTGTGGA 240
TAAGGGAGAG TTGACCGTTT TCATCCTGGC CTCCTTTTGC TGTTTGGATG TTTCCACGGG 300
TCTNACTTAT ACCAAAGGGA AACTCTTCA TTAAAGNCCG TATTTCTTCT AAA 353

```

(2) INFORMATION FOR SEQ ID NO: 4470:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 64
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05309

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4470:

```

GATCCTCTAA CACTGTACTA AACATTTC AATAAATCAT TCTGACTGCG TTCATAAAAA 60
CAAA 64

```

(2) INFORMATION FOR SEQ ID NO: 4471:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 169
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05310

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4471:

```

GATCTATTAC TGACCGTATG ATGAGGCCAA CTTTTTTNCC TTGTGGTTAG CAAGACTGCA 60
AGAGATGGAA AAAAAGTAGT TTGAATGTTT TGTGTGTAAG GAGTATACCA TGAGATGAGA 120
TGACCACCAA TCATTTCCTT GGGGGGAGGG GGTGTCTGCA CCNTAGAAA 169

```

(2) INFORMATION FOR SEQ ID NO: 4472:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 132
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05311

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4472:

```

GATCACTTGA ACCCAGGAGT TTAAGTCCAG TCTGAGCAAG GCAGTGAGAC CCTGTCTCTA 60
AACAAATAAAA ATTAAATAA GTATTATCGA GAGTTCCTGG AGGGGTGAAA TTAAAGACTT 120
TCAAACTTA AA 132

```

(2) INFORMATION FOR SEQ ID NO: 4473:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 328
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05312
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4473:
 GATCACCAGG CTGCCCAAGG GTGCTGTGCT CTACAAGACT TTTGTCCACG NGGNTCCTGC 60
 CAAGCCTGAG GGCACCCGTC AAAGTGGTAG CTATGCTTNG ATGTCCTGTT GAGGCCATCG 120
 GACAGAGACT GGAGCCCAAG TGACAGGAGA TGGTGATACC AGAAGTCAAG GGTGAGGGTG 180
 GCGACACGGC CTCCCGAGGA AGAGGTCTGC TTGATGGTGA CTCTGCAGGA GACTCTGAAG 240
 TGACTGCTGG GAAACCCTTT GGGAGACCTN ACCTGNGGCC AAAANTAAAG TNNGCCAGCN 300
 TCATGAACCG CATNCTATTT AAGGGAAA 328

(2) INFORMATION FOR SEQ ID NO: 4474:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 307
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05313
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4474:
 GATCTGGACA TGCTGTNACA AGAAATAGTG ACCTTGGGGA ATATGTACAG AAAAGACCTT 60
 TTTCTAAGAG TTGGGAGGGG GTGGGGGACT GTATAATGAA AAGAATTAGC TTACAAAAAA 120
 GAAATTGATA TTCAAAGTAT TTTAGGCAAA GCCAGTCAAA ATGCTTTCAT GATATTTTGA 180
 GATGTAAATT TTGTCTGATT TGTATTGTNC TTTTCATTG CTTTCTTAAC TTTATATGTG 240
 ACCTGAATTT TCCATAACTT GATGACTATA GATTGCACCT AGGCATTCCA ATAAAAGCCA 300
 ACCCAA 307

(2) INFORMATION FOR SEQ ID NO: 4475:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 133
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05314
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4475:
 GATCGTAAAA ACATGTCTTA TCGGGAACCTT TCATGTCAGA TGCCTGGAGT GTGAAGTGTT 60
 CATTGGACAT TCCATTTTAC TGTTCAAGT ATGGACTTAC ATATCAAATT AAAAGGCTCT 120
 TTTGTTCTGC AAA 133

(2) INFORMATION FOR SEQ ID NO: 4476:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 130
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single

(D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05315
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4476:
 GATCAACTGT CCTTAACCAC AGCAGCATGA TACGCTGGNT TACCCAATCG CTTGTAAGGN 60
 AAGNCAGAGA TGACGTTATC CTGACTGCTG AGATGAGCAG TTTACCCTAG GAGGNCCNAT 120
 TNGGACTATN 130

(2) INFORMATION FOR SEQ ID NO: 4477:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 105
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05316
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4477:
 GATCAGCCAC ACAACTGTTT TGTACATACT TATTTTCTCA TGCACCTTTC TGTATGCAAA 60
 TAAAGCTATA AATTACTCA TTTCAATAAA CTGGAGTGGC AGAAA 105

(2) INFORMATION FOR SEQ ID NO: 4478:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 159
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05318
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4478:
 GATCTGGGAC AGANTTCACT CTCACCATCA GCAGTCTGCA ACCTGAAGAN TTTNCAACTN 60
 ANTACTGTCA ACAGAGTTAC AGTGCCCCGT GGACGCTCGG CCCAGGGACG AAGGTTGGAC 120
 GTCAAACGAA CTGTGGCTGC ACCNTCTNTT TTCATCTTN 159

(2) INFORMATION FOR SEQ ID NO: 4479:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 170
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05319
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4479:
 GATCTGAAAA GAAGGTGAAT ATTTTGCAC TTTGATACTC TTAGGAACAA ATAACCTATT 60
 TGGCAAATTG TTTNTTTTTT ATGTTTTGGG TGTTGTTTTT GTTTTTTGAC TTTTTTTGTA 120
 TTGTGAACAG GCACTGAAGC TGATGTTATT TTAAGATTAC AGAATGGAAA 170

(2) INFORMATION FOR SEQ ID NO: 4480:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 73
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05320

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4480:

GATCATGTAA AATTACAGTA CTCAACCCTT CTAGCAAAGT ATTTGGNTGA AAAATAAACT 60
 AAATGCCTTT AAA 73

(2) INFORMATION FOR SEQ ID NO: 4481:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 130
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05321

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4481:

GATCCGCAGA GGGTGGTTGG GATACACCGG ATACCTCTGC TCTCATTGCT TGTTTCCAAA 60
 TGCTCTATGG ACATTGTGT GCTAAATCCT ATTAAATAAA AAAGACGGGT TAAACCCAG 120
 ATGCTGTAAA 130

(2) INFORMATION FOR SEQ ID NO: 4482:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 56
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05322

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4482:

GATCAAATTG AGAGACAATA AGTGACATT GTTGAATAAA AAATTTTAAA GTTAAA 56

(2) INFORMATION FOR SEQ ID NO: 4483:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 90
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05323

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4483:

GATCTTGAGA GTATGTTCTT ACTCATTCT GTAATTGCAG TAGTGTAGTC ATCTGCATAT 60

AGTTTTAATA AATGCATGTT AAAATTTAAA

90

(2) INFORMATION FOR SEQ ID NO: 4484:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 58
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05325

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4484:

GATCAGCCA TTGCACTCCA GCCTGGGGGA CAAGAGTGAA TCTGTGTCTC ACCAGAAA 58

(2) INFORMATION FOR SEQ ID NO: 4485:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 115
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05326

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4485:

GATCTGGTGA CTGTNCTCTC CTTGTTTTCC TTTCTTTTGG GGTGTTTGAG GAGCANNGCT 60
TAGCTTGAGA CACACACAGA CACTGTGTAC TTCAGTNAAG GGCTTAATAN ACAGN 115

(2) INFORMATION FOR SEQ ID NO: 4486:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 201
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05327

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4486:

GATCATTTCT ATGTGTGTGG GTAATCTGGT CAGTAAGATT GAGACTTAGT TAAGATTCCC 60
CTTGGAATTT CCTTAATGTT TATTAGCTTC TAACTAGTGT TGTAAGTCCG ATGCCAGAAT 120
TTGGAGATTT GAGTTCTTCT TTTCATGGCT TTTATTCACT GTGACTAATA AGCTTCCTAA 180
TAAATCCTTG CCAGACTTAA A 201

(2) INFORMATION FOR SEQ ID NO: 4487:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 274
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05328

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base.

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4487:

```
GATCTAGTTC GTGTATAACT GTTAACATCAT TTTACATTTT TTNCTTCGTT GAATGTTTAT 60
CAGATTATAA ATATAGAGGC ATTTCTNCAT CCTGTTTAAT GTTTATTTTG TAATCATTGG 120
AGTATGTGAA AAATTTTNGT TTGTTTGTCT TTGGTCTCTA AGTAAACATG TTCAGCAAAG 180
TATTTNTNTT TTNAAGAAAT AAATNGNGNT TTGTATGTCC TNCCTTTTAG GTTTGAGGCA 240
AAGAGGAGAT GGGAANCCAA AGGCAACANG GGNN 274
```

(2) INFORMATION FOR SEQ ID NO: 4488:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 332
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05329

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4488:

```
GATCTNTGCC ATGCAGAGCA TCTTCCAGAA GACCAGGACT CTGGGAGGCG AGGAGAGCTG 60
AGCTGGGCCA CCTGGTCTCA GCCACCTGTT CTTGGCTCCC CAACAGACTC TGCACGAC 120
CATGGGAGGC TCCTGGGATG TTTGGAAGAA GAAACGGGCT TCTCCTTGAG GGGGTAGTGG 180
AGGGATTTTT TCCCCAGCAG TGGCCTCTGA GAGTNMNTCA GTGCCTGGTG GGGCAGGGCA 240
GGCCTCTTGG AGCACCTCCT CCCTGGNTCA GGGCCTGGAT GCAGGTGCCA AGCTCTCCAT 300
GTGGTGCATG TTNGACCCAG CCACGTGGTG AN 332
```

(2) INFORMATION FOR SEQ ID NO: 4489:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 155
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05331

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4489:

```
GATCTTAACT ATGAGTAATT CACTATCAAG AGCTAATTAT TTGAAAAAAT ATAAGATGTT 60
ATGGAGCAGA TAGCTCAAGC AGTTAAAAGA AATTNTGCAA CTNTAATTCT NTTCTTATT 120
TTAATACTAC TACTTAATAA ATAGTATTTG CTAAG 155
```

(2) INFORMATION FOR SEQ ID NO: 4490:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 115
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05332

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4490:

```
GATCAAATCA GAGATTGACA GCCTGTGGAG GGTGCTGAAC TATACAGAAT TAGACACAAC 60
TATGTCATTA TTTTTTGTAC CTAAGTNTCA GAATAAAAAC ACTTGAAATA TGAAA 115
```


(2) INFORMATION FOR SEQ ID NO: 4491:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 197
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05333

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4491:

```
GATCCCTTCT GTTGGTGTCA TGTTGTAAAC ATTTCTTTCA ATAACTAAA GAAAAATTAT 60
TAAAGGAACA CATACTTTG GTTAAATAGT CTAGACTAAA AGATTGAGAA GTTACTTTCC 120
ATTGCTATCT ATTGATAATT TAGACATTGA GTTCAAATTG CCTTCATTTT ATGATAAATA 180
ATGATTTAAC TGACAAA 197
```

(2) INFORMATION FOR SEQ ID NO: 4492:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 79
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05334

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4492:

```
GATCATTTTT ATTTTGTAAT TATTACCTAA CTTTACATAA ACTATATCAT AATAAACTAT 60
TTTTGCATCA CCCTTTAAA 79
```

(2) INFORMATION FOR SEQ ID NO: 4493:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 377
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05335

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4493:

```
GATCTCCAAG CTGAACTTA CACGTAAAA CTTTGCCTG TAAGAATTTG CACATGAATG 60
TTAATGGAAA ACACAAACT TAAGATGGCC CAAAACNAAA GCCACAAACA GTTCATCATT 120
TGGTGCTTAG TCTTTGTAAG GGCTCTCTGT GGTTTGACTT ACTCCAGCTA CCGTTAGATG 180
AGGGCAAATC ACCTTAGAAC ATGTTCAATT GATTCATAAC ANGGAATTT GGGTCTATGA 240
TTTTTNGCCA ATCTTAGCCT AAAAGAAATT GCTTTAGCTT CTGGTCAGCA CTGATTAAAA 300
TGTGAATAGT GAAGTGGCTA TCCTAACTG GTTTATCTCC ACCCACACTA TCATAGANTT 360
CTTAGGTAAT ACAATTN 377
```

(2) INFORMATION FOR SEQ ID NO: 4494:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 170
- (B) TYPE: nucleic acid

(C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05336
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4494:
 GATCAAACAC ACACACCTAT ACACATACAT ATTAANATGC AGAGGATTTT AAATAATTGC 60
 AAATGTCTTG TGGCTGTTTT ATTTCTACAA AATTCTGTAA GATGTATACC AGAAAACATA 120
 ATAAAGATAA GCTCAGTTCT TCATTGGGNA AAANTATTTT TAAGNNNNNN 170

(2) INFORMATION FOR SEQ ID NO: 4495:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 57
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05337
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4495:
 GATCTGTAAT GTGTCAAAGC ATTTTTCCT TTTCAAATAA AGATACCTAT AATGAAA 57

(2) INFORMATION FOR SEQ ID NO: 4496:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 373
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05339
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4496:
 GATCAGAATC TNCCAACCTT AGAGGTGCAA TGGAAGACAC TACGCTACTT GGTTGAGCCT 60
 GGTGAAGAAT GTATTAATGA GACTNCTTTG CATAAACTG GGAAGAAAGA GAAGACAGTT 120
 GGAGATGGAA GATGGTTTTN TATATATNTN GGAACCTTAG TTCCTCTGTA AGACGAAAGA 180
 GGAGAGCTAT GTTTNNTNTC ACATTGTCTG ATATATATNG TGTACCTGTC AGGTGAGTTG 240
 ATTTAGACAN CATAGCTGAC CTTTTATGAC ANGGCAGTTT GANTAGGGNC TATTGTAATA 300
 CCCTCACACA TTATAGGGGC ATCAGAGNAT GGCCATGGNA GGGACAGTCT TACAGGGGGC 360
 TTTANGNGN CCN 373

(2) INFORMATION FOR SEQ ID NO: 4497:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 368
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05340
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4497:

```

GATCTGAAGA AGTTGCTGTT CTGAAACAGA AGTTGGAGCG ATGTCATTCT GCTGAGCTTG 60
CACTTAACGT AATCAQGAAG TAGAGGAAAG GCTATGNAGT TGATGATTAC GTCTCAAAGA 120
AATCCAAACA TGAGGAGGAA GAATGGACTG ATGACGACCT GGTAGAATCT CTCTAACCAT 180
TTGAAGTTGA TTTCTCAATG CTAACATAATC AAGAGAAGTA GGAAGCATAT CAAACGTTTA 240
ACTTTATTTA ANANGTATAA TGTGAAAACA TAAAATATAT TANNCTTTN CTATTGTTTT 300
CTTTCCCTTT CACAGTAACT TTATGTNAAA TAACCATCTT TCAAAGGGC TANAANNAN 360
ANANNTNN 368

```

(2) INFORMATION FOR SEQ ID NO: 4498:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 150
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

(vii) IMMEDIATE SOURCE:

```

(B) CLONE: HUMGS05341

```

(ix) FEATURE:

```

(D) OTHER INFORMATION: "N"=unidentified base

```

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4498:

```

GATCACATCA CCTCTCTGCC TCAGTTTCCC CATCTGTAAG ATGGGAGAAT AATACTTGCC 60
TACCTACCTC ACAGGGGTGT TGTGAGGATT CATTTGTAAT TTTTTTTTTT TTTTAAANA 120
NGTTTTTAAN GNNTAAAAAN CAGTNAAATN 150

```

(2) INFORMATION FOR SEQ ID NO: 4499:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 109
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

(vii) IMMEDIATE SOURCE:

```

(B) CLONE: HUMGS05342

```

(ix) FEATURE:

```

(D) OTHER INFORMATION: "N"=unidentified base

```

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4499:

```

GATCTCCATC ATTTCTTACA GGTTTTCCTC CCTCAAGCAA TTCGACATCT CAAGTGAAGA 60
CATGGCCCCT GAAGGGCAAT AAAGCTGCTA GTTTATTAAT ACAGTCAA 109

```

(2) INFORMATION FOR SEQ ID NO: 4500:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 315
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

(vii) IMMEDIATE SOURCE:

```

(B) CLONE: HUMGS05343

```

(ix) FEATURE:

```

(D) OTHER INFORMATION: "N"=unidentified base

```

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4500:

```

GATCTACAGG NCAAGGGGAG GGAGCAAGCC CTACTCGGAT GGGGCACGGA CTGTCCACCT 60
TTNCTAATGT GTGTTGTCAG CCTGTGCTGT GGCATAGACA TGGATGNGNG GACCACTTTG 120
GAGACTGGGG TGGCCTCAAG AGCACACAGA GAAGGGAAGA TGGGGCCATC ACAGGATGCC 180
AGCCCCTGCC TGGNTTGGGG GCACTCAGCC ACGACCAGCC CCTTCCTGGG TATTTATTCT 240
CTATTTATTG GGNNNNGNTG AAGAGGCATC CTGCCTGGNT GGGNCAGCCC CTTCAGCCCC 300
TTNTNCCCTN CCCGN 315

```

(2) INFORMATION FOR SEQ ID NO: 4501:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 157
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05344

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4501:

```
GATCAGACTG TTGCTTTCGC ATGNTGTATG TAGTGTCTCA TGNCTGGAGT TTGCTTTGTT 60
TTATAGTATC TGTACTCCTT GTATTTTTC AAGAGCTATTT TGTAACAGAG TGATGTATTT 120
CTCCATTGAA AACACAATAA AAAAAANCA GCACAAA 157
```

(2) INFORMATION FOR SEQ ID NO: 4502:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 397
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05345

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4502:

```
GATCTAGTCT TACTTTTCAG TTGTNTGTGA GGTCCATTCT GTTACTAGA CGGATGTAA 60
TAAAAACTAT GCGAGCCTGA NTGANTTCTC AGCCAAATTT AGTCTGTNT CTCATCTTGA 120
TTGGNTTAAT TCCAAATTCT AAAATGATTC ANTNCACAAT AGCTCTAGGG GATGANGAAT 180
TTGCCCTTACT TTGCCAGTT CCTAAGACTG TGAGTTGTCA AATCCCTAGA CTGTAAGCNC 240
TTCAAGGAGC AAGAGGCGCA TTNCTCCGT GTCATGTAAT TNNCTAAGG TGCTTGGCAG 300
CACTCTGTAC CCTGTGGAGT ACTCAGTACC TNTGGTTTGA NGTTGCTGAC AAGACCTGAA 360
AAAAATCCCT TAAAAANNA ACCCTTTAAG GTGTGGN 397
```

(2) INFORMATION FOR SEQ ID NO: 4503:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 84
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05346

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4503:

```
GATCAGACTT GTTAAGTATG CCGCAAGTAA GAGCTAATTC ATTCATTCCA TGTNTGCCAC 60
TAAATAAAGA GATTGAGCAA GAAA 84
```

(2) INFORMATION FOR SEQ ID NO: 4504:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 316
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single

(D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05347
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4504:
 GATCTNAACC CCAGACATCA AGGATAACAT CGTTGCTCAG CTGAAGCAGC TGTACCGCAT 60
 CCTTNAAACC CAGGAGAGCT GGCAGCCCAT GCAGCCCACC CCCAGCATGC AACTGCCCCC 120
 TGCCCTGCCT CCCAGTAAT TGTNAATGCN ATCTTCTTCC TTCTNTTTT TATAATATTG 180
 TACATATGGA TTTTTTNAGN GNTTAGATTT AACCAGCTTT TAAATCTCTC TTTNNTCTAA 240
 CAGTGTTAGA AGTTTGTNAT TCTNCAAATA TGCCTAGATT TAAAGCTGNT TTGAATTTAT 300
 GGNAAAAAAA AANAAN 316

(2) INFORMATION FOR SEQ ID NO: 4505:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 218
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05349
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4505:
 GATCAAAGTG TTAGGGGAAA AAAATTCCAA AAGTAGTTAC AAGCTATATC AATGTCAAAG 60
 TAAATNCACT TCATCAAAGC TAAGAAGTCA CAGGAATTGT NCTCAGGTTT TTAAAAAAT 120
 TTTNCCTGAA TTCAGGAAGT GTCTTCTGAA TAGCAGCTAG CCANNTAAAG CGGTGTGTGT 180
 GTACTGCAGC TGTAGGTGAA CTTAAAAATA ATAATAAA 218

(2) INFORMATION FOR SEQ ID NO: 4506:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 297
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05350
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4506:
 GATCAGCCAG TTACCTTCTC CATTGTNTTA GTTCTGTCAC CCATTTCGTC AAGTGACCTC 60
 TCATCTTCTA TAAACTAATA CAGGAATTCT TTCCAAAGCA ATGTCTAAAA ACTCTTTTTT 120
 TTAAAGTAAC AGTTTGGTAT GTTTATTGTA GATAAATNAT TTTTNAGGCC TTCATTTTAG 180
 CTAAGTTTAG AATTNATATT AGGCANCTAT GATTTGAGTG GTTATNCATT GAGTAANTTT 240
 CCACTATAAA GAATTTNATT GANCANTTGT TAAAGNATNN TGGTAATGCA TGGNCAN 297

(2) INFORMATION FOR SEQ ID NO: 4507:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 322
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05351

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4507:

GATCAGAGCA CTGAGAAACT CCAGAGGCTT CTGGTTCACC GCCCTGATTC CACAGATGTG 60
 GGTCAGAGGC AGAGATGGAA GTTGAATGG ACAAGCCTGC CCTCTCCTCA GCTCTCCATG 120
 GCTCTGTCCT CAGGCTGTTT CTGCAATTG ACATGAGGCC TGGCCCCAGG GAAACCAGTG 180
 GGGCCTCATC TCCTCCCTGT GCTGCTCTGA GGTGGAGCCT TCTNAGGGTC AGTCCAGCTC 240
 TGGAGNCCCT CTCCAGCTCG GTCACCAAAG CTGTCTGGTC CCAGGGCGGT GTGGAGTGAC 300
 AGGCACGGCA GCCCAATNCN GN 322

(2) INFORMATION FOR SEQ ID NO: 4508:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 137
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05352

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4508:

GATCGCGCCA TTGCACTCCA NCTTGGGTGA CAGAGTGAGN CTCTGTCTCA AAAAATAATA 60
 ATAATNAATT AATTAATTAA TTAAAAAATA AACAGTGGGT TAGTTATCTC AAAAGTGGGC 120
 TTGTTATAAA ANCNNGN 137

(2) INFORMATION FOR SEQ ID NO: 4509:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 285
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05353

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4509:

GATCATAAGA CTGTCATGTA AGAGGTGCTC TCCTGGCACC CAGAGAAAAG GAGCATCCTT 60
 ACCTCCAAAA GCACAGGGAC ACAAAGAGGA ATCTAAACAA ACAGGCCTCT NAGTTTCCCC 120
 CAGTTTATTA CATTAGCTT GTTCACACTT TGCCCTATGA CATTNCTACA TCACTGGNTG 180
 CTCTTCATCA AACCTACTAT AANNNNCATT CAAGTTCAAC TGTTTCTTTG GGCCTTNNTT 240
 NNCTTATGGA GGCCCTCGTG TCGTGTAATA CTTNTATTNG GTNAN 285

(2) INFORMATION FOR SEQ ID NO: 4510:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 327
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05354

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4510:

GATCAGCAGA GTGGAGGCTG AGGATGTTGG GATTTATTAC TGCATGCAAG CTCTACAAGT 60

```

CCCGGTCACC TTCGGCCAAG GGACACGACT GGAGATTAAA CGAACTGTGG CTGCACCATC 120
TGTNTTCATC TTGCCGCCAT CTGATGAGCA GTTGAAATCT GGAAGTGCCT CTNTTGTGTG 180
CCTGCTGAAT AACTTCTATC CCAGNGAGGC CAAAGTACAG TGGAAGGTGG ATAACGCCCT 240
CCAATCGGGT AACTCCCAGG AGAGTGTAC AGAGCAGGAC AGCAAGGACA GCACCTACAG 300
CCTCAGCAGC ACCCTGACGC TGAGCNN                                     327

```

(2) INFORMATION FOR SEQ ID NO: 4511:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 194
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05355

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4511:

```

GATCCTCCAC TCCAGAGCAC CTGAGAAGGC CGGGACCAGA GGCCCTGTGT GATGTGTACT 60
CCGCAGCTGT TTGGGGTGGG ACATTTCTGT ACTTCTCGAT TTGCTTATGG CTCAGCCATT 120
ACCTGTGTCA GTCCATGATT CTGTTGTAAC AGTTTAAAGA GTAAATAAAT AAAGCTGCCT 180
GATGTCCCAT CAAA                                     194

```

(2) INFORMATION FOR SEQ ID NO: 4512:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 106
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05356

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4512:

```

GATCACTTTT CCCTGTCTAA ACTCCAGGNT ACAGTATCCA ATANATCCAA ACAGAACTCT 60
GGTGTCAAAG TGTAANTAAT NGTGTAATAAT AGCCTTCCCA AGNTTN                106

```

(2) INFORMATION FOR SEQ ID NO: 4513:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 89
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05357

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4513:

```

GATCTCACCA CTGTACTCCA GCCTGGNTGA CAGAGCGAGA CCCAGACTCA AAAAATAAAA 60
ATAAAAACCC TGAATATCTT CTTTCTAAA                                     89

```

(2) INFORMATION FOR SEQ ID NO: 4514:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 366
- (B) TYPE: nucleic acid

(C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05359
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4514:

```

GATCTCTATA CCTCAGCTTC TTCATCTGCA AAGTGAGATA ATTGTACTAT TCTACTTTCC 60
TCATAGTGCN NTTATAACAG ATTATGATAA TATTACAAAG TACTTAATAC TTGGCATATA 120
GTATATATAT NANCTATTAG TATTTTGCAA TTTGGGGATA TTGAAAATTA GAAATTGCNT 180
GTTAGTTCAT GCTGCACTAC CATATTGTCC TTTTGGGGCT CTTCAATGGG TGAAATTCCA 240
TTTNACAGTT TATCATGTGC ATCTGTATCA CAGGNGTATT TTGGCAAAAT GATTCTGTNC 300
CAAAAAGGAG TACTATANNN NGNGGGTGCC AAATATATTG AGTCTNTTAT GGGGAAAANA 360
AATTTN                                           366
  
```

(2) INFORMATION FOR SEQ ID NO: 4515:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 313
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05360
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4515:

```

GATCTCTGGT AAAAAGCAAC ATCTGAGAAA ATTNCTTGTT TTTAGGAACC TGTGTACATT 60
CATACTTAAT TCTNCCAATN ATGCTTTTCA GTTTTTTGA TTAACACTCA AAAGTAACAA 120
GTCCTCAAAA TTAGGTTTGT CCTGTTGTTT TAAGTGGAAC TTTGGCAAGA GATTCTAGT 180
GAAGCTTGAT TCTNAGTACT TTCCTCATGT ATTA AAAAGA GGCTGGAGGA GGGAACCTGG 240
GACGTGGAGA GTGAGGAGTG ATAGCCTGAG GTTCTTGTT TGCCAACCTG GGGAAACCCT 300
GTCTCTACTT AAA                                           313
  
```

(2) INFORMATION FOR SEQ ID NO: 4516:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 73
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05361
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4516:

```

GATCACTAAA CTATCTCCCC TCTTGCTGAA GTTCTTTGTA GTAATAGCTC ATAAAAATTT 60
GTTTATTAAT AAA                                           73
  
```

(2) INFORMATION FOR SEQ ID NO: 4517:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 247
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05362

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4517:

```
GATCTTTTAA AAAGAGATTA AACCGAAGTG ANTTAAAAGA CCTTGAAATC CATGACGCAG 60
GGAGAATTGC GTCATTTAAA GCCTAGTTAA CGCATTNCT AAACGCAGAC GAAAATGGAA 120
AGATTAATNN GGAGTGGTAG GNTGAAACAN TTTGGAGAAG NTAGAAGTTT GANGTGGAAA 180
ACTGGANGAC AGAAGTACGG GAAGGCGAAG AAAAGANTAG AGAAGATAGG GAAATTNGAA 240
GNTAAAN 247
```

(2) INFORMATION FOR SEQ ID NO: 4518:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 95
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05363

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4518:

```
GATCGCAGAA CATACTGTAT TTTNACTATA TCTTTTTTTT TAAATCTGAC AAACTTTTTT 60
NCTTTNATTT NAATTGACAT AATTGTACAT ATAAA 95
```

(2) INFORMATION FOR SEQ ID NO: 4519:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 134
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05364

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4519:

```
GATCTGCTTT GGAAATTAAT TGCCTCTAAT ACATACCTAA GTAAACATAA CATTAATACC 60
TAAGTAAACA TAACATTACT TGGAGGGTTG CANTNTCTAA GTGAACTGT ATTTGANACT 120
NTTNAGTNTA CTTN 134
```

(2) INFORMATION FOR SEQ ID NO: 4520:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 269
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05365

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4520:

```
GATCTGGCAC TGAGCTTTTT GTCAGTGAAC CTTCCCGATG CCAGCTGGGC TCTTGGAATC 60
CCCTCTTCCT CAAGGGTAGA TGAGAGGAAC GATNNNTAGA GGTTGGCTGT GGGTCCTGGG 120
TACCACCTTC TGAGCCTCAG TTTCCTCATC TGTAAGTGG GGAGAAAAGT CTGTTTGCCT 180
CAGGAGTGTG AGGACTACAC TAGTGAAAGC NCCTGGCGGG CAGCCGGCGA TGCCCAATAA 240
```

ATGTGTGNTT TGCTGTTTGT TAAGTGAAA

269

(2) INFORMATION FOR SEQ ID NO: 4521:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 189
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05366

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4521:

GATCAGTTTG TAATTTTTTT NCTCCTTGAA GGCACAAAAT AATTGGTTTN AGGTATGTAA 60
 AACACTAGAG GTCAACCTTA CATAGTATAT AGAACTNATG GGTTCACCCA GCTACCCAGT 120
 AGCATAACTT TNCACAGCTC GGGGATGAAT TAACATGGCT GAAATAAAAC TAAAAGTATG 180
 GTTTTNAAA 189

(2) INFORMATION FOR SEQ ID NO: 4522:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 79
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05367

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4522:

GATCACAGTA CACCATATGC ACTCTGGTAC CTTAATTTTT TTTTATAAAT AATAAAAGTG 60
 AATATTGAAG CTTCTTAAA 79

(2) INFORMATION FOR SEQ ID NO: 4523:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 255
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05368

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4523:

GATCTGTTGA ATTTGGGAAG CCTCCAGTTT TAATAAAATT TTTTATTAT GGTGGAAACN 60
 TGTCTGTAAA NCTTAGGACT ATAGAAATGC AAAGAATAAA GANCTGAGGG AGTTACACAC 120
 ATTTGTAGTC AGAAATTAAG TTCAAAANAT AATTTAGGTC ATTTGCATTT TTTAGTATGC 180
 AAAATAAATG GAAAANTTAA NGTGCAATAN ANNTATAATT NGGGAAATGA ATGCAGTAAA 240
 NTTGANAACA TTGAN 255

(2) INFORMATION FOR SEQ ID NO: 4524:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 51
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single

(D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05370
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4524:
 GATCTGTCAG GGCCACTTAG TGATAATAAA TTCTTCCCAA CTGCAGACAA A 51

(2) INFORMATION FOR SEQ ID NO: 4525:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 353
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05371
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4525:
 GATCCGCATC GACTTGGCCG TGGGCGACGT GGTCAAGACC TGGCGTTTCA GCAACATGCG 60
 CCAGTGGAAT GTCAACTGGG ACATCCGGCA GGTGGCCATC GAGTTTGATG AACACATCAA 120
 TGTGGCCTTC AGCTGCGTGT NTGCCAGCTG CCGAATTGTA CACGAGTATA TCGGGGGCTA 180
 CATTTTCCTG TCGACGCGGG AGNGGTCCCG TGGGGAGGAG CTGGATGAAG ACCTCTTCN 240
 GCAGCTCACC GGGGGNCATG AGGNCTTCTG AGGGCTGTTT GATTGCCCCCT GCCNTGCTNA 300
 ACAACCTGTN ACAGGCACTT CCAAGGCCAG AACCACAGGG GCTNACTNTC GAN 353

(2) INFORMATION FOR SEQ ID NO: 4526:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 174
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05372
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4526:
 GATCTGGAAT AATTATGGTA AAATAATAGT ATTTGCTAAG ACTAGATGAT TGGTGTACTG 60
 GATTTCATCC GCTATTTTCT AAGTTTGTTA TGAACGCTTA AAATATATAT GTATGTAGTA 120
 AAATTAATGT AAATTTGTAC AAATAAAAAT AAATGGCATG TGATATATGG CAAA 174

(2) INFORMATION FOR SEQ ID NO: 4527:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 201
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05373
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4527:
 GATCATGTGT TTGGGGGCTT TTAGGGGACC CAGCTGCACT GGGGCACTGC CCGTGGCCTG 60
 GGTAGGACAT TTCCAGCAA GGGCTGGAGG AGTTGCCGTG CCTTCAGCCT GAATCGAATG 120

TCAGAACCAG CCAGCGGTGC TTCACCCTCT TGGGGATAAC TTGCTTAGTT TTTTAATAAA 180
TGTTCTGGT TGGTTTCAA A 201

(2) INFORMATION FOR SEQ ID NO: 4528:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 308
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05374

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4528:

GATCTATGAA GCCACCAAC AAGGCCGAGG GGCTCTGGAG GCATTGCTAT GTGGGGGACC 60
CCAGGGGGCC TGCTCAGAGA AGGTGTCAGC CACAAGAGAA GAGCTCTAGT CCTGGACTCT 120
ACCCTCCTCT GAAAGAAGCT GGGGCTTGCT CTGACGGTCT CCACTCCCGT CTGCAGGCAG 180
CCAGGAGGGC AGGAAGCCCT TGCTCTGTGC TGCCATCCNG NNNGGNTCCT CCAGCCTCAG 240
GGCACTCGGG CCTGGGTGGG AGTCAACGNC TTCCCTCTG GACTCAAATA AAACCCAGTG 300
ACCTCAA 308

(2) INFORMATION FOR SEQ ID NO: 4529:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 194
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05375

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4529:

GATCTTCTGA GCTTGTTTCC CTGCTGGGTG GGACAGAGGN CAAAGGAGAA GGGAGGGTCT 60
AGAAGAGGCA GCCCTNCNTT GTCCTCTGGG GTAAATNAGC TTGACCTAGA GTAAATGGAG 120
AGACCAAAG CCTCTNATTN TNAATTTCCA TAAATGTGA GAAGTATATA TATACATATA 180
TATATNCCTN TAAN 194

(2) INFORMATION FOR SEQ ID NO: 4530:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 314
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05376

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4530:

GATCTTGATT GATAACTGCC ATGATATTTT GCTTTGATGT GTTCTACAT GTGGTTGCAC 60
ACGGTTCAGT AAAAATAATG CTGCTATCGA GTATGCAAAT ATTGAAGTAT GATGGTTTGA 120
CTGTATGGNA GTGTTGTAGC AGCCTCTTGT TTTTTTCCCC ATTGCCTCTT TTTTAAAAA 180
ACTTATAAAG TCACTNTTNA TTTTNCCTCA GTCTTCAATG ACGAGAGCAA TATTAAGANG 240
ACATTGCTAT CTAATNTTNA ATCTTNTTAA ATGAAAAATT CCTATGTTCA GTAGCGTGGT 300
TGATGCTATT GTGN 314

(2) INFORMATION FOR SEQ ID NO: 4531:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 182
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05377

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4531:

GATCGAGTCA GCATAAATTT CTAAGTCAGC CTCTAGTCGT GGTTTCATCTC TTTCACCTGC 60
 ATTTTATTTG GTGTTTGTNT GAAGAAAGGA AAGAGGAAAG CAAATACGAA TTGTACTATT 120
 TGTACCAAAT CTTTGGGATT CATTGGCAAA TAATTTTCAGT GTGGTGTATT ATTAAATAGA 180
 AA 182

(2) INFORMATION FOR SEQ ID NO: 4532:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 314
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05378

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4532:

GATCATGAAA CTGGTTTCTG TTTTATGCAG TTGTCATTTG TAAAGNCTAA TAAAATATNC 60
 TCTATAATTN CTTCTAGATT ACAAAAATAT GACAATCTTG TAAGTAGCAG ACTATGGAGA 120
 AAAATGAGTT ACCTGGNGGG TCAGGTAAC TGCCAAACTN AAANGTNTGT TAGTTGAGGC 180
 AAAGTCCTAA GCAAGGTTGT GCTATCANGG CTCAGCATAC CTTCTGTTGGC CTTTGANTTA 240
 CCANCACTGG AANTGCCTGC CANCTAATCT GGGGTAGATT CTTTAAGGCA TTCCACTTAG 300
 CTTGCCAGTT GNGN 314

(2) INFORMATION FOR SEQ ID NO: 4533:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 311
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05379

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4533:

GATCAACTAA TAGCTCTGCT AGTAATTGAT TTATTTTNC TCAATAAAGT TGCATAAACC 60
 AATGACTTAG CTGCCTGGAT TAATCAGTAT GGGAAACAAT CTTTGTGAAA TGCAAAGCTG 120
 TTTTNGTAT ATACTGTTGG GATTGCTTC ATTGTTTGAC ATCAAATGAT GATGTAAAGT 180
 TCGAAAGAGT GAATATTTT CCATGTTTCA TTAAAGTGCA CAGTCTGTGA CAGGTTGACA 240
 CATTGCTTGN CCTGATTTAT GCAGAATTAA TANGCTATTT GGATAGTGTA GCTTTAATGT 300
 GCTGCACATG N 311

(2) INFORMATION FOR SEQ ID NO: 4534:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 330
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05381
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4534:

```

GATCGGAGGA CGACCCGAGT CCCAAGAGTG GGGTTTTGCT TTTTAAAAGG AGAGAGGAGG 60
GGTGATGGCA GGGGAGTGGA GGGTGGCCGG GCAGGTCCTG CCGGCGCAGG GAGCCCTCTG 120
CCCTTCACAC TCTCCTCCAA AAGAGCCTCC ATCTGTAAGG AAGCAGGTCT CCGCGAGGGG 180
TTTCTTTCCA TGTNTTTTCC TCCTGTNGTT TTAGAACTTT TTNGAAAAAA ACNGNCCTCG 240
TTTGTAGATT ATAGCATTGA CTTTACACA CATTACACA AGANAAAAAT CCTTNCAAAA 300
TTCTTAAANT NNNCTGGTNC CNNCTTTNNN 330
  
```

(2) INFORMATION FOR SEQ ID NO: 4535:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 204
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05382
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4535:

```

GATCTCAGCT CCCGTTCCCC AAGCACACTC CTAGCTGCTC CAGTCTCAGC CTGGGCAGCT 60
TCCCCGTGCC TTTTGCACGT TTGCATCCCC AGCATTTTCTT GAGTTATAAG GCCACAGGAG 120
TGGATAGCTG TTTTCACCTA AAGGAAAAGC CCACCCGAAT CTTGTAGAAA TATTCAAAC 180
ANTAAAATCA TGAATATTTT TAAA 204
  
```

(2) INFORMATION FOR SEQ ID NO: 4536:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 136
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05383
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4536:

```

GATCACTTGG AGACTCTTTT TTTGCTGGTT TCTAGATAAC TCAGGTAAAT CAGACCTTTA 60
CAGAGTACAG GGCTAGGTGA NAGANTTACT GANAAATCAC CTTGAAAATC CGANGGGCTG 120
ATATACCTT NNTGTN 136
  
```

(2) INFORMATION FOR SEQ ID NO: 4537:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 87
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05384
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4537:
 GATCTATGCT GTGTTTGCTT ATTCTTTAGT TGAACACACT ATGAAGAATT CCAGGTGTAC 60
 TAGTGAATGT AATTATAGT TGCCAAA 87

(2) INFORMATION FOR SEQ ID NO: 4538:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 305
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05387
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4538:
 GATCGACAAC GAGGCCCTCT TCAGCTGCGA GGTCAAGCAC CCAGCTCTGT CGATGCCCCAT 60
 GCAGGCAGAG GTCACGNTGG TTGCCCCCAA AGGACCCAAA ATTGTNATGA CGNCCAGCAG 120
 AGCCCGGGTA GGGGACACAG TGAGGATTCT GGTCCATGGG TTCAGAACG AAGTCTTCCC 180
 GGAGCCCATG TTCACGTGGA CGCGNGTTNT GAGCCCGNN NNNGGACGGN AGCGCTGAGT 240
 TCGACGGGAA GGANCTTGGT GCTGGAGCGG TTTCCGNCG AGNTCAATTG GCTCCATGTA 300
 TTNGN 305

(2) INFORMATION FOR SEQ ID NO: 4539:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 106
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05388
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4539:
 GATCATAAAA TGAATTCTTT ATTGTATCTA CACACTCCAC ATTCTTTACT GTGTCCTACT 60
 ACTGTATCTT GGCTCCANTG CTGTATTAAA CACCATCTTA AGCAAA 106

(2) INFORMATION FOR SEQ ID NO: 4540:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 167
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05389
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4540:
 GATCCTCCTT TGCATGCAAC TGTAGCTGCA TTTAATGAAT AGTTTGAACC CTTGTNAATN 60
 CATTTTTTNA AAAAGAAAGA AAAAAAAAAAC TTCGTGTATG NAACTCAAAG CATGNAACCT 120
 TAAGATGTTG CATTCTAAAC TNACANTAAA GACCTTTCCC AANTAAA 167

(2) INFORMATION FOR SEQ ID NO: 4541:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 111
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05390

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4541:

GATCCATACG TGGCCGACC CACACAGCAC GTGCTGTGAC NGATGGCTGA ACGGAAAGTN 60
TACACTGTTC CTGAATATTG AAATAAAACA ATAACTTTT AATGGTANAA A 111

(2) INFORMATION FOR SEQ ID NO: 4542:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 216
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05391

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4542:

GATCAGTTCT GCAAGATGCC CATCAACAAC AAGATGGCCC AGTGGGGCAA CAAGCCTATA 60
TGCTGAGCAG GAGGCAGACT TGCAGAGCTT GTTTTGTTC ATCCTGTCCG TAAGGGGTCA 120
GCGCTCTTGC TTTGCTCTTT TCAATGAATA GCACTTATGT TACTGGTGTC CAGCTGAGTT 180
TCTCTTGGGT ATAAAGGCTA AAAGGGAAAA AGGAAA 216

(2) INFORMATION FOR SEQ ID NO: 4543:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 103
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05392

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4543:

GATCGAAAT AGTTGGAAAA AAGAAGAAGA GTTGCATCTC TACTGAACAT GTACAGACTT 60
TCTTCTTCTT ATTATTCCTT AAACAATACA GTGTAAACT AAA 103

(2) INFORMATION FOR SEQ ID NO: 4544:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 194
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05393

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4544:
 GATCAGAACAA NTNCAAAAAA TTCACACCCC CAAAAAAGNC AAGCTATTAT ATGGCAATTT 60
 CGTGATAAAA TATTCATCCT ATTTGTCCTG CATTCTAAT TTTCCCGTAA CTAGACACAT 120
 CAGTTTATA ATTAGGGNAA AAATACCTT TAAAGTAAA GCGAGCANAG GTTTCNNTTG 180
 CANTGTTTAT TCCN 194

(2) INFORMATION FOR SEQ ID NO: 4545:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 108
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05394

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4545:
 GATCTGGTAG GTTGACAGCAG AGAAAATAAA TGTGACTTGN GAGNCCACTC AGAGAGGGTC 60
 CAAGGGTGAT GGAGAAGGAA GCATGGCCTG GNAGCTTGA AGGNANGN 108

(2) INFORMATION FOR SEQ ID NO: 4546:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 266
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05395

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4546:
 GATCTGCTCT TGCAATGGCC TCACCATCTG GNAGGAGCGA GGCCGGCCCA TCGTTGGCAA 60
 GGGCCGAAAG GAGTCAGCGC ANCCCTGCC CACCTTTNAG CAGGACCTCA CCTTGGCTCT 120
 GTTGCTGTCC TCCAGGGCGA GCACTTTCCA CTTCCAGAGG GGGCCAGAGG GACTTTGCCT 180
 GCCCAGTCTT TGGAGAGCTC AGTACAGGGC AGGAGCTGCT GTGGTGTTC CTTGGCAAAT 240
 NAAAGTTTTA TTTTCGTTTG GGNAAA 266

(2) INFORMATION FOR SEQ ID NO: 4547:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 72
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05396

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4547:
 GATCTCCGTG TGTGCATGTN ACTGTGCTGG GTTGGAATGT GAACAATAAA GAGGAATGTC 60
 CAAGTGTTCA AA 72

(2) INFORMATION FOR SEQ ID NO: 4548:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 104
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05398
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4548:
 GATCATGGGG GTGGATTCT TATGAATGGT TTAGTACCAT CCACTTTGTA TTGTCCCCGT 60
 GGTAATGAGT GAGTTCTTAA GAAATCTGGT CATTGAAAA TAA 104

(2) INFORMATION FOR SEQ ID NO: 4549:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 74
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05399
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4549:
 GATCTTCACA TCTTGGACCT TNGTCAGTTT TGCTATTCAT TATTAAACAC TAAACTTTG 60
 GCGGTTNTTG CAAA 74

(2) INFORMATION FOR SEQ ID NO: 4550:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 292
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05400
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4550:
 GATCTGAAAT CACATCCAGC TCCTGATGTT TTCTTCTCCC TCTGACTGCA GAGGAAGTGT 60
 TCCTACCTGC AGGAAGGCAC CTGTACACACA GGGCGTTCAC TCAGACCATC TGTGCTCTGC 120
 CCTGAGTTCA GTTGAGAAAA TCCTATTATC AAATTTGGNT TTCCTGGCCC CAGAACTTCC 180
 CAAAGACCTG TAAAATGGAG GGATTTACCA CCTCACATAT GTCCAGTTAA ACAGTTTGTG 240
 GACTTGTAAC CGTCGCAGCC CANTGGTACA ACAGTAGTTT AATCACGGGA AA 292

(2) INFORMATION FOR SEQ ID NO: 4551:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 265
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05401
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4551:

GATCGGATGG GCAAGTCCCT GCCAGGGTCT CCAGATGGCA ATGGAAGCTC CTCCTTGCCC 60
 CACTGGGAGT AGCGGGTAAA GCTGGGGGAT AGAGGGGCTG CAGGGCCACT GGAAGGAACA 120
 TGGAGCTGTC ATCACTCAAC AAAAAACCGA GGCCCTCAAT CCACCTTCAG GGCCCGGCC 180
 ATGGGCCCCCT CACCGCTGGT TGGAAAGAGT GTTGGGTNGT TGGCTGGGGG TGCAATAAA 240
 GCTGTGCTTG GGGGTCGCTN GGAAA 265

(2) INFORMATION FOR SEQ ID NO: 4552:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 173
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05402

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4552:

GATCTATGCT CTTTCAAATG GAGACTGGGA TATTGTTGTT TTAAGACCAC TGTTTTCTTG 60
 TTTCTCCCA AATNTTAGTC ACATATATNA TTACCCTTAA GTTGGTCACT ATCTATCTAT 120
 CTGTCAATAA TTCAGGATTA AAGTTTGAAG TGTAATTACA TTTGANTTTT AAA 173

(2) INFORMATION FOR SEQ ID NO: 4553:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 270
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05404

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4553:

GATCGACCAG CAGGTGGTCT ATATCCATCC TTCCAGTGCC CTCTTCAACA GACAGCCAGA 60
 ATGGGTNGTG TACCATGAGC TNGTGCTCAC CACCAAGGAA TACATGCGTG AAGTTACCAC 120
 CATCGACCCT CGGTGGCTTG TGGAGTTTGC CCCAGCCTTN TTNAAGGTCT CAGACCCANC 180
 TAAGCTAAGN AANCAGAAGA AGCANCAGCG TCTTGGNACC GTTGTACAAC CGNTATGAGG 240
 ANCCCAATGN CTGGGAGAAT ATCTCGGNGN 270

(2) INFORMATION FOR SEQ ID NO: 4554:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 333
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05406

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4554:

GATCGGGTTG AGCCCAGGAG GTTGTGGCTG CAGTNAGCTG TGATGTGCCC TTATGCTATA 60
 GCCTGGGCAA GAGCGTGAGA CCCTGTCTCA AAGAAGAAAA AAAGAGAAAA ATAACCTTTT 120
 TGAACAAACA GNCAAATTAG CTAGTAGTAT GGAGATGTAT ACCCTCTATT ACACACATAA 180
 AACCGTAACA AAATTCATTG NGGTGTATTA TAGTTAGTTT TGTGAATAGA GAAATAAAGC 240
 ACTGATGNTT AANNTTGGTT ACAGTGACTT TTAGAAGGGN TTNNTTGNTG GTTCACATTN 300

GTCAGAANTT TTTTCCNNC NNGGCTGGTT CAN

333

(2) INFORMATION FOR SEQ ID NO: 4555:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 250
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05407

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4555:

```

GATCTCCCCC TTCCCTTGNG GGGCACAGCT GGCCTGGGCC TCCAATCCTG CGGANTTTCC 60
TGGGTGTGGC TTTGACCTCA GAAGTGGCTC TGGTTTGGCC TCAGGAGTGT GGCCTGGCCC 120
AGCCTGCTGC AGCCTCCTGT GGNNGGCCCT TNATGCCACT AATCCCCNGA CCCCCCGGAT 180
NTTNCAAAC GNACAGACAC ACGNATTGTT AAGGCCGCTT ANGGCCTCCA GCGTGCACTC 240
TTNTTTANGN 250

```

(2) INFORMATION FOR SEQ ID NO: 4556:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 211
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05408

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4556:

```

GATCAATGCA NCGACGTNGG GCTCATGGCC TACCTCGGCA CCATCACCAA AACGNGCAAC 60
ACCATGAACC ATTTTGTGAA CAANTTCAAT GTCCTCTACG ACCGACAAGG CATCGGCAGG 120
AGAATGCGCG NGCTCTNTTT CTGATGAGGG TACTTGAAGN GGCTGATGGA CAGGGGTCAN 180
NGCAACTATC CCAAAGTGGA GNGCACTACA N 211

```

(2) INFORMATION FOR SEQ ID NO: 4557:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 308
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05409

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4557:

```

GATCTTTTTT CCATTGGTTA AACATTAAAC TCCATGNCAG ACCTTGTTTT AACCCCTCTC 60
ACATCATGTT CTTTCCTTTT TTGCGAGTTA TTTTGCATTA ACCAACTTTG TCAGTGACAG 120
ATGCGTATCT GAGGGTGTCA CACACGACCN TCAGCAGGGA AGACTTCTGG GCCATGGAGG 180
GCCGTCTAAT ACATGGACTT ATAACTGAC TGCNTGGGCA ATGAAAAGGC CAAATTATTC 240
TGAATTTTTT TNGAATCACT GTAAAAAAC TGATTNTTN NTGTATAGAG ANCACTAAA 300
CGGTGGAN 308

```

(2) INFORMATION FOR SEQ ID NO: 4558:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 175
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05410
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4558:
 GATCCAGCTG GCTCATCCCA GCCCAGGTGG GCCAATTATT CAATTTTNAA GAATTTTGTT 60
 GCAAGCCAGT TGTCAAACAC AGCCATTATA ATTATGTAAA TTTGCAANTT ATGTTAAAAA 120
 CAAGGACAAT AAATATTCAA AATGCATCCC TAATTACTAC ATTTGACCAC GNAAA 175

(2) INFORMATION FOR SEQ ID NO: 4559:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 178
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05411
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4559:
 GATCTTNACA ACTGTTTAAT CAGTTTTATT TTTGTACAGT ATTAGTGACC TAAGTNATTT 60
 TGCTGTCCCG TTTTGTGAAA TCAANTGAAA NTATAAAAGA GGCTTGTGAC AGTAGGTATT 120
 TTGTACATAT GTATATATGT TGTCCAAATA AAATTAATAA ANTGGTNAAA GGCTGAAA 178

(2) INFORMATION FOR SEQ ID NO: 4560:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 77
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05412
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4560:
 GATCTTCAGC ATCTTTTACT TTCACCAGCG TTTCTGGGTG AGCAAAAACA GGNAGGCAAA 60
 ATGCCGCAAA AAAGAAA 77

(2) INFORMATION FOR SEQ ID NO: 4561:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 203
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05413
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4561:

GATCCCAGGA ATATTGTAAA TTTCTAACT TTACTCTGCA TTTTGTATAT CTGGCCTCTA 60
 TTGCCCTTGA AGGTGAAGAT GAAACTGTCT TAGAAGATA TCTCTTTGAT TCTGTGATAG 120
 AAGTCCCTCA CATCTTGAT TAATTTTATG TATATATCAA CGGTGGTTGG TCTTTAAAAA 180
 AATAAATCAA AAGAATANGT AAA 203

(2) INFORMATION FOR SEQ ID NO: 4562:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 352
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05414

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4562:

GATCAACCCA CATTAGAGTG TCTAAGGACT CCTGAGAATT CCTGTTACAG TAAACAAAAC 60
 TAACGTAATC TACCATTTC TACACTATTT GAGCATGGAA ATCATAGTCC CCACTCTGTG 120
 AAAACTTAAC GCTTTTTGGA AGACATTTCT GTAGCATGTC AGTTTGGAGA AATGATGAGC 180
 TACGCCTTGA TGAAAGAACC GTGTTGGTGC TGCTAAGTTT AGCCATTATG GTTTGNGCCN 240
 TTNTCTNTCT TAAGGCCTTA TTCTTTCAAC TAAAAAGNTG GGGGATTNAG GNGCCAAGGN 300
 AGNTTGGGGG GGGGNTNNTG NAAATTAANT TTTNTGAGG GGTNGGCNTA GN 352

(2) INFORMATION FOR SEQ ID NO: 4563:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 210
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05415

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4563:

GATCCGCAAC CTGGACCCCA GTGAGAGGCG GTGGGCTGAC TGGGAAGNAG AGGCCCCCAA 60
 CCTACTCAGG ATTTNCACGT GTGAAGTAGG CTGCCTGTGG GGTGCCCCTT AGGCTTGGAG 120
 AGCCCCAGAT TGGAGGCAGA CAGACTGCAC CACCCCTTCC CCCCCTGCAT CTCAAGAATA 180
 AAGCAAGCTG CCTTTGTACT TGGTTGNAAA 210

(2) INFORMATION FOR SEQ ID NO: 4564:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 74
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05416

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4564:

GATCANATAG TTGCTGTTTT GTAAAATGTA ATGTATATNT GGTTTAAAGT AAAATAGGGC 60
 ACCTGTTTCA CAAA 74

(2) INFORMATION FOR SEQ ID NO: 4565:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 303
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05417

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4565:

```
GATCCAGAAA CTGAGAAGCT TATCCGAGAG AAAGATGAGG AGCTGCGGCG GATGCAGGAG 60
ATGCTACACA AAATACAAA ACAGATGAAG GAGAACTATT AACTGGCTTT CAGCCCTGGA 120
TATTTAAATC TCCTCCTCTT CTTCCTGTCC ATGCCGGCCC CTNCCAGCAC CAGCTCTGCT 180
CAGGCCCTT NAGCTACTNC CACTTCGCCT TACATCCATG CTGACTGNCN AGAGACTNAN 240
GNGGCANTAA AGTTTAATAA ATCTGTAGGT GGCNNANAGA AAAAGAAAAN AACAAAANAA 300
AAA
```

303

(2) INFORMATION FOR SEQ ID NO: 4566:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 109
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05418

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4566:

```
GATCGTGTTC TAACTTTTTC TTTTCCTGTT TTTATTTTGG TATTAAGTCG TTGCCTTTAT 60
TTGTAAAGCT GTTATAAATA TATATTATAT AAATATATNA AAAAGGAAA
```

109

(2) INFORMATION FOR SEQ ID NO: 4567:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 303
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05419

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4567:

```
GATCTGGAGG CAGCAGTGCT GGATGGAATT GTCTAGGCTG TGGCATGTTG GTTTTGTCTT 60
TCTTTTCTCC TTTGATTATG TAAGAGCTAT TTCATTATAA CTTATTATGG TGATTATACA 120
GGCAAGAAGA CAAAAGGAG AGAAAATGTA CCTCTTCTAC TGAATAATG TTTATGATTA 180
CAAGTGAGAT AAGGTATTTT NATCAATATG AAGGCAACCT TGGCTGATAA AACCTCTATA 240
GTGAATACTC ACATCTTTNA CTTCACTCAC TATCAATAAT AAATATATTT NCTGACAANG 300
AAA
```

303

(2) INFORMATION FOR SEQ ID NO: 4568:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 230
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single

(D) TOPOLOGY: linear
(vii) IMMEDIATE SOURCE:
(B) CLONE: HUMGS05420
(ix) FEATURE:
(D) OTHER INFORMATION: "N"=unidentified base
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4568:
GATCTCTTTT GTAGAGGATT TCAATGTATT TCTTTATCAT TTGAGTGTGT GTGTGATGGA 60
CGAATATGTG TGTGAGTTTG AGAAGCATAT CGTTCGTGTC CAGTACTTT GCAAATTTGT 120
GGACATTTGT GATTGGACAG AGGGGTTTGT GCTGTGGCCT AACACTTGCC AAGTGAGGTG 180
TAGGTTATGC CTATATGCAA ATTAACTTC ACCTTCTTG AATATTCAAA 230

(2) INFORMATION FOR SEQ ID NO: 4569:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 355
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear
(vii) IMMEDIATE SOURCE:
(B) CLONE: HUMGS05421
(ix) FEATURE:
(D) OTHER INFORMATION: "N"=unidentified base
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4569:
GATCCCCAAT TGA CTCAGAG TTTGAGGAGT TAGTATCACA GAATTAGATT TTTTAAAGC 60
ATTTGTACGT TTCCATTCCC AAATATGTAG CTGTGGTTCT TGAAAACACA TCCTACATTG 120
CATATGGGCA TAGCAGTTTT TGACCCAGGC AGAATAAGTT AATATTTAAT TAAATATTGC 180
TTTGAAGATG GCGCTCTGGG CATGAGCATG GGGCTCCATG ACTTCCCTTC TATCCCCATG 240
AGCCCCTCCT NCATCCAGCG ACAAGCCATG GGCATGCATA CAATGCAGCA AGACCAACAC 300
ANGNGCAATA TTGAATTGGN TCATTCTATC TAAAAATTAC ATGGGGNGGG ANG TN 355

(2) INFORMATION FOR SEQ ID NO: 4570:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 353
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear
(vii) IMMEDIATE SOURCE:
(B) CLONE: HUMGS05422
(ix) FEATURE:
(D) OTHER INFORMATION: "N"=unidentified base
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4570:
GATCAGAAAT AAACGACAAA TAGTGTGAGA TGTGTTGTGA ACAGGCATGG TGACCGTGGT 60
CAGCGCCACT CTTGTTTCCT GAAATGTGCT TCTAAGACAG AAAATGTATT TNCTCATCAA 120
GGGTGTCTGG AGACACAGAC CGTGACCTTG GCGCANGGTG TGCATCAGAG GCGTGTGCTG 180
AGAAGGGTGG TGTTAAGCTG TGGAAAATGA CTCAAGAGCA ATAAATCAGT GCCAAAGCTT 240
CCCTGCGCAT CTGAATAGNC ACAAGTGAAG CCCGTGTGCG CACAGTGCAG AGGCCNAGNC 300
TGTATTTCCA GGTAGNGTGG CTTTATTTGA CTGTGAATCC ATTTACCTGT TAN 353

(2) INFORMATION FOR SEQ ID NO: 4571:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 266
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear
(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05423
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4571:
 GATCGGGTCT ATTTACACCA ATAGTCACTT GTGTGTCCCC CGAAATTGGG ATGGGTGAGC 60
 ACCCTTGCTG TGGTGTAAC TTCCTGTTAT TTAATCTCCC CCACGGTTTC ATTTTNTNT 120
 TCTGTTAATA CTTAGAACTT TCTAAGAAAC TCCATGAAAT GAGGAAATAC TGTTTCTAAT 180
 AATATGAGGA AAGANGTAAA ANTGTTCATT CCANGTGGCA AGTCTTATTG GACACATTTT 240
 ANATAAGNTC ATGCATACCT GATAAA 266

(2) INFORMATION FOR SEQ ID NO: 4572:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 279
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05424
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4572:
 GATCGCCCGC ATGAGGTGCT GCTGTGCTCG GACCTGGTCA AGGCATACCA GCGCTGCGTG 60
 AGCGCCGCCC ACAAGGGNTG AGGAGCAGAC ATCATTCCTT GCCCTGGCAG TGAATTGGAG 120
 CCCTGAAGAA GGGCCAATCA TGGGACCACA GCCACTGTGC CCTGCCGTTT CCTGCTGGGC 180
 CCCTGCATAT GCCCCTGAGC CTGGGGCTGC CACGTGTTTA GGAAACAAAG TATGCGCTAC 240
 TGTCTGAAAA CAAATAAAGC AGATGCCTTT GTTTTCAAA 279

(2) INFORMATION FOR SEQ ID NO: 4573:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 131
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05425
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4573:
 GATCTAGGCC AGTGGCTGCT TGTCCTTGTT GAGCTGTGTG TNTNCTNCTN TAAGCAGCTC 60
 CTCCCCGAG TCCCCAGCA CAGTCCCAGG AGATGACAGG AAGGAAGCAC CAGGGCAAGN 120
 CGGACGNTCA N 131

(2) INFORMATION FOR SEQ ID NO: 4574:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 413
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05427
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4574:
 GATCTCACCT TCCACCTCCT CCGGAAGTC TTGGAAATGG CCAGGGCCGA GCAGTTAGCA 60

CAGCAAGCTC ACAGCAACAG GAAACTCATG GAGATTATTG GGAAATAAAA CGGTGCGTTT 120
 GGCCAAAAAG ANTCTGCATT TAGCACAAAA AAAATTTAAA AAAATACAGT ATTCTGTACC 180
 ATAGCGCTGC TCTTATGCCA TTNGTTTATT TNTATATAGC TTGAAACATN GAGGGAGAGA 240
 GGGAGAGAGC CTATACCCCT TACTTAGCAT NCACAAAGTG TATTCACGNT GCAGCAGCAN 300
 CACANTGTTA TTCGTTTTGG NCTTCGGTTT NGTTNCCGGG GNCAGGTGTT TTTATTAGTG 360
 GNGTTTTTAA AAGGNGGNTN GTNGGGACCC TGTGGAGNA NAANCGGTTT TGN 413

(2) INFORMATION FOR SEQ ID NO: 4575:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 55
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05428

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4575:

GATCAGCCA CTGCACTCCA GCACCCTGGG CGACAGAGTG AGACCCTGTC TCAA 55

(2) INFORMATION FOR SEQ ID NO: 4576:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 102
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05429

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4576:

GATCTGGCGT TGCCAGGCAT TCTGTAAGGG AGGGCTTTTC CAGTTCCTGG AAATGGAAC 60
 GGAAAATNTG GCTGGAAACA TTAATATGGC TGGAAATGGA AA 102

(2) INFORMATION FOR SEQ ID NO: 4577:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 420
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05430

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4577:

GATCCAAGCT GCTTGAGGGG GTCAACCTTG GACCAAAGTT GCCTTAAGCC TGTGGTAAAA 60
 GGGCTTCAGG GAAGGTAAGT GGGCCANCTG CTGGAAGCTG CCAGCTGCCC GGNTGGCAAT 120
 GGTGTGAGTG TCTTGGCCCT GTCCCTGCCC TGGGGTCCAG CAGGTNATCC CTCCCTTCTT 180
 CTCTCTCCTT TGGCGTTTGT TCCTGTAGTC ACTGGGCTAA TCTCCCCCTA GCTTGAAGCT 240
 GTACATAGGG CCTCCNAGTG CAAATGNTNC TGNCCATACC GTGCACCCTT AGAAGCCTGC 300
 GTGTGCATAG AGCGCCNNT ACTTNCCAGT TAANTTCCNA GTTCTTGTTN CNTGAGCTTG 360
 GTATTTTGTG ATGTGNCAA TTCTGACTTT TGAAGGTTGG GNAAGTGAAG GGGAATTNAN 420

(2) INFORMATION FOR SEQ ID NO: 4578:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 307
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05431

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4578:

```
GATCTGGGAC GTCCACGAGT GAGGGGCTGG CCACCCAGCC CGACAGCCTT GCCTGACCAC 60
CCTCCAGCAG ATAGACGCCG GCACCCCTTC CTCTTCCTAG GGTGGAAGNG GCCCTGGGCC 120
GAGCCTGTAG ACCTATCGGN TCTCATCCCT TGGGNTAAGC CCCAGTCCAG GTCCAGGAGG 180
NTCCCTCCCT GCCCAGCGAG TCTTNCAGAA GNGTTTAAA AGGGTTGCAG GTNCCNACCA 240
CTGACCCTTC CCGGNTGGCC TNCTTGCNCA GCTTANAANC TTAAAGTCCA GNACGCAGTA 300
ACCTNTN 307
```

(2) INFORMATION FOR SEQ ID NO: 4579:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 239
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05432

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4579:

```
GATCCCTCTC CAAAGTGGTT GTCTTTCTNT ACCTTGTGTC TTCTCTTGTA AAAATGAAAC 60
TCAAAAATAA AATAAATGTG TCAAATTTTG AAAAAAANG AAAACTGAAA AAGCTAACAT 120
GANTTGTGTG AAATTGCATA ATGCTGTANT GCTAATCTAC AATATGTAAT GCTATCTTGT 180
ATGTNGNATT TGTTAATGCA CCACACAAGT GCAANGTAAA GACTGATTCA CNTTGNNNN 239
```

(2) INFORMATION FOR SEQ ID NO: 4580:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 51
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05433

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4580:

```
GATCTGACTG TACTAAATAT GAAAAATAAA GCAGCACATA CTTTCTCTAA A 51
```

(2) INFORMATION FOR SEQ ID NO: 4581:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 201
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05434

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4581:

GATCCATATA ACTGTTGGGT GCATCAGTGC TTTNAAAGG GGCTGCTTAC TATAGGGTTA 60
 ACTATGTATA TNCATTGTTA AGAGTTAACT TGTGTTTGG CTGTTTCCTG GATTTNATAA 120
 CATACATGTG CAGAAATGTA TTCAAATGAA AGGNAGCATA CCTTTATCAN GATGCTATTA 180
 AANTTGANCA TCGNGTNTAA A 201

(2) INFORMATION FOR SEQ ID NO: 4582:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 170
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05435

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4582:

GATCATACAG TGAGGCTACA GTGACTGAGG GGAGAATCCC CTCCTGTTCA CTCTCCCAAC 60
 CCTGCTCCAG CCCCTCAGCT TCCCAGACCC TCATGCANTT GGTGTAAAT NCTCCCAGGA 120
 GCTGTTTTAC TGTCTACTTT TCAGGATTAA AAAAAANNNN AAAACTTAA 170

(2) INFORMATION FOR SEQ ID NO: 4583:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 393
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05436

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4583:

GATCGGACTC TGCCCTGGA CCTGGGAACG ACTGGACTGT CACGGGGTTA CCTCCTAGCT 60
 CTCCCAGTGA ACTCCTGCCA GGCACACACA GCCCCTATAG CACTGAGCTC ACATGGGACT 120
 GGGATATGGG GGCATCTCTT CCCCAGAGAG GCACTCAGTG AGCCTCCTGT GCCTGGNCCC 180
 AGCCTGGGCC ATCTCTTAGG TGAGACAGTT GCCCGAACT AAGCCAGGCC TGGCTGGAGG 240
 AGCAGCAGCT TGGGGAGAGG GATTTCCCTG CAGACCTCAA GCCATCATGC GGTGGGTGCT 300
 GCCATGACAG AGGCTGGACC NCTGGGCCAG CGGGGTTGCT CAACCACCTT TTGTGCAAGG 360
 TGGCCTTTGT GCTTGCGCCT GCAGGCAGAN GTN 393

(2) INFORMATION FOR SEQ ID NO: 4584:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 162
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05437

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4584:

GATCCTGCCC GAGGAGGAGG ACGAGGGTGC CGACTCCTAA CCCC GCCAGG CAGCCTCGTT 60

CTGCACAGGC ACTTTAGCCC GAGCCAGGNA CACCTGCGAG GGGGCAGGTG TGCTCCGCCG 120
CCCTGCTGAT AAGCTGGCTT CATTAACTG ACACTTCTCA AA 162

(2) INFORMATION FOR SEQ ID NO: 4585:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 122
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05438

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4585:

GATCTGTAGG GTCAGGAACA CAGCACCTAA CACAGTGCCT TATGGATAGT AGTTTTATAA 60
TACAGATGTG TTGGAAGAAT AAATGAATGG GTCCTTTTCA AACAAATTCA CCAGAAGTTA 120
AA 122

(2) INFORMATION FOR SEQ ID NO: 4586:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 288
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05439

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4586:

GATCTGTCAC CTTACGCGAG ACCTATTTCC TCCCCACCCC CAGAAACCTC TTGTGTTCTT 60
GCCTAGGCCC AGGTGTTTCT GGCAGCCAAA TCGAGTCTCT CATTTTCTCT TGTGGACCAG 120
TTAGTTTTCG CCATAACGCA GTATTCTGAG TTTGCAACTG TCTCTCTGAT GTGTGCCTTT 180
TGTTCACAC AGTAACCCCT GCATTCTGCT CTGCTCTAAT AACTACCTG GAGAAAGTCT 240
TTTCCTTATT TTCAATAAAT GTCAGACATT ATTGNAAAGA AAAAANTN 288

(2) INFORMATION FOR SEQ ID NO: 4587:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 188
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05440

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4587:

GATCCCTATG TGGCTAACAG AATTAATGNT TCCAAAAATG TTGNAAATTA TATAGTNCTC 60
TTAATTCACC ACCTCTAACT ATATTTTGG GTTATTTCTT TAGGAACAGA TGCCAGGAG 120
TCATATTACT GAGAATCTAG AAATCTTTTG CAAAGTTCTT GTTATNTTGN CAAATTGCTT 180
CCNNNNNN 188

(2) INFORMATION FOR SEQ ID NO: 4588:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 287

(B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05441
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4588:
 GATCTGCCCCG CCTCGGCCTC CCAAAGTGCT GGGATTACAG GCGTGAGCAC CAGTGCCCAG 60
 TCCTGCCACA TCTTTTTTGT TAGTTGCAGT AGCAATACAA CCTTATCTAG AAAAGCTGGC 120
 CAAAAAAGAA AATACCATGA TAATAGGGTA CCTAATTTAT TGCTTTATTT AAGAAAAATG 180
 TAATATTTCA TTCGAATAAG TACTTTTGGG CTGGGATGNT ATTCATTTA GCTACTTGGC 240
 ATGCCACCCA TCTTAGGGAA TTATATGAGG GTTTATACTT TAAAGTN 287

(2) INFORMATION FOR SEQ ID NO: 4589:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 289
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05442
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4589:
 GATCAAAATT TCAAGTTGAC AAATTTGGAT TTGAAACTC ATTCACTTTT TCAATTTTTT 60
 TAATGAGGCA TAACATGCAT ATGGTTAAGT GCACAAATCT TAAGTGTA CA GTCAGTGAAT 120
 TTTTGCATGT ATGTATGTAC CTGANGCAAG ATATAGA ACT TATTTACTTG TAAATAACAG 180
 CTATATTGAT ATGTCACATA CCAAANANTT TACCCTTTAA NTTATACAAT TCAGTGTTTT 240
 TTTGTATATT TGCAAAATTG TGCAACCNTC CCNACCATCT AATTCTAGN 289

(2) INFORMATION FOR SEQ ID NO: 4590:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 293
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05443
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4590:
 GATCCTCAAA GAAAGATTTG TTAGAGATAG ACAGGTTTAC AATTTGTGGA AACCGAATTG 60
 ACTGAATCTG TGGCTTCATG CGCTGAAGAA GCTGGGTCCT GGGGCAACAA GTGCTGTGTT 120
 GCCAGGACAA ATAGATGCTA AACATGGCAC TTAAATATTT ATTTAAAAAC TTAAATTATT 180
 ATTGGAAGC AAATCTTAGT ATCTTTCTTC CAGTAATATG GCCTGGCTGA GGGTCAGACC 240
 ACAGGACAGG NGCGACCTCC GGCCTTGACT GTCTGGGAAG CTTGATGGAT TTN 293

(2) INFORMATION FOR SEQ ID NO: 4591:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 62
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05444
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4591:
 GATCCACTTA GAGCAATAAC CACTTTTAA ATGTAAAATA AAAAGACAAA TGNAAAGGCA 60
 AA 62

(2) INFORMATION FOR SEQ ID NO: 4592:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 64
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05445
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4592:
 GATCTTCCCA CTGCACTCCA GCCTGGCCAA TAAGACCTGT CTCCAGCAAG ACCCGNGTCT 60
 CAAA 64

(2) INFORMATION FOR SEQ ID NO: 4593:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 323
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05446
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4593:
 GATCTAGATT CATTAGGAAT GTNTTCTTGT CAGCCAGGCC AGGACCCGGG CTTGCCAAGA 60
 GCAGAGGCC TCCCAGCAAC CAGGATACCA CCACTTTGGG GGCTTTGTGT ACAGAGGTCC 120
 GGGTCTGAGA CCTCATAGGC TGCAGAAATC TGGGGCAGCC ACCATCAAGA AGCCCTCTC 180
 AGGGGCCAGA ACTCCTTTGC CAGCGTGGAT TTCTCAAGTC GGGACTGCAT AATTAAAGCA 240
 GTTGCAGTTT TATTTTTTTT ACAGCTTTT TCCCAAAAAT GATTTGTAGT TGTGTGTGCA 300
 GCACTTTCGG CCTGATATGT GTN 323

(2) INFORMATION FOR SEQ ID NO: 4594:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 70
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05447
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4594:
 GATCAAAAAG ATAAGTTTAC AAAGTTGAGA CCTCTCATAA AACAAATGAA TAAAAATTTC 60
 CTCTTGTA 70

(2) INFORMATION FOR SEQ ID NO: 4595:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 183
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05448

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4595:

```
GATCACCTGT GCCTCCCCTC CCCCTTTGTT TGCCCTGTG TGGTTGGTCA AGGAGGGATG 60
TGAGGGNAAT AGGGACCCCC CGACTTGCCC TCCTGCCTCA GTCTTTCCCC CACCCTGTCT 120
CTTCCTTGTC CTTCTCTGGA AAATGCCAAA ATACACGATG TGAATAAAAG TACAACGGCT 180
AAA 183
```

(2) INFORMATION FOR SEQ ID NO: 4596:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 70
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05451

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4596:

```
GATCTATAAT TATGCCAATA CCACACTGTC TTGATTACTG TAACTTTAGA ATAAATCTTG 60
AAAGTAGAAA 70
```

(2) INFORMATION FOR SEQ ID NO: 4597:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 202
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05452

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4597:

```
GATCTGCCTG TCAGAGTCCA CGTGTCTCTG TCACTGGTCT TTATAATTGT TGTGCAATAA 60
CTAAAGGCTA AGGACTAGAT GCACTATCGT GTAAAGAGAT TACACATGAC TGTACCATGT 120
TGCACTTAAT CAAATAGTAT GTGGGGNTTT AAAATCGCTT GCATTGTTTC ACAAATAAAA 180
TATCTCAATG TCAAATACTA AA 202
```

(2) INFORMATION FOR SEQ ID NO: 4598:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 149
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05453

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4598:

GATCCTGGNG CCTGGACCGG GCTGGANGAC AGCTGAGNAT GGGCCTAGCA GATGAAGCTT 60
 GCCAGCAAGG CCAAAGCAAA CGGTTTCTNC TGTGGATAGT GGACAGAGAC CTTTGTAAACC 120
 AATGGAATTA TTCATTTTNC TCTATCINN 149

(2) INFORMATION FOR SEQ ID NO: 4599:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 311
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05454

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4599:

GATCAAGCAA TGGAAAAATT TGCACCACCG TGTCCCATGA AATTGTTTCA ATGTTTAGTT 60
 TAGATATTGC TAACTTGTGC TATTAACCTT TTGACAAGCG TGATGATTG TTTGTTTGG 120
 GTTTCTTTTT GATTTATAAC TATTTAGTAG TCCCCAGCTA GCTACCAGTA CAGATTTTAC 180
 CCCATGGGTA GGATTCTATT GTTAAGCCAC ATAACAAAGC AACTAATTC TGACANCACT 240
 GCAAATGGAA AATACGAACC AAAAAAAGT TACACCGATA AGTTCANCA ACTGTCCATT 300
 TTTGGATATT N 311

(2) INFORMATION FOR SEQ ID NO: 4600:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 221
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05455

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4600:

GATCCTGCCT TTTCTTTTTT CCCACAACCT CACGCCAGNA GTTCGTTTAC ATCAGGTAAA 60
 TCTTGAGAAA GCCTTGGTGC CCTCCTCCCC ACCCCCCACT CAGTAACCAC GTGCGTGCAC 120
 CCCCAGNATCC TTTCTCAGTA GTTAAGACGT TCTAGGCAAT ACCATAGACA CATCTGACTG 180
 TGTCTCTNTC TTTGAGTGCA AGAAACTCAA GTNATCTTAA A 221

(2) INFORMATION FOR SEQ ID NO: 4601:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 176
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05456

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4601:

GATCAGAGCA GCTACACTGA AGCAAAAACC CCAGCGCCCA ACGCTAAATA TATTGCAATG 60
 GAGAAACCGT CCACAATGGG GTGTCTCTGT CCTTAGCAGA GCCTTGGGGC TGCCGTTTAA 120

GACCCCTCCTG CTACTCCCAC CCTTTTAGCA TCTAGTAAAC CACGCGCTGT AACAAA 176

(2) INFORMATION FOR SEQ ID NO: 4602:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 293
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05458

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4602:

```
GATCTCTATC ACTTTGCCAC CTGTTTGATG TGCAGTGGAA ACTGGTTAAG CCAGTTGTTC 60
ATACTTCGTT TACAAATATA AAGATAGCTG TTTAGGATAT TTTGTTACAT ATTNGTAAAT 120
TTTNGAAATG CTAGTAATGT GTTTTCACCA GCAAGTATTT GTTGCAAAC TAATGTCATT 180
TTCCTTAAGA TGTTACAGC TATGTAACCT GGTATTATTN CTGGGNCGGG CTTNTTTAAA 240
ATACNAGNCC NGGCCAANAN AAANTAGGAN CAAAAACCTN GGGGGTTCTG AAA 293
```

(2) INFORMATION FOR SEQ ID NO: 4603:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 184
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05459

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4603:

```
GATCAGGGAT GGGGATGAGG TGAGGGGATT TGCTAGAAAG GGGTGCAAAG GAATTTAGCG 60
GGTGATGGAG CTGTTCTGTG TCTTGATTGT GGAGTTATTA CAAGACGGTT ATTACAGTTT 120
TGTNGTATTG AATTTTACTG TATGAAAATC ATACCGCAAT AAACCTCACT CACATACGCA 180
CAAA 184
```

(2) INFORMATION FOR SEQ ID NO: 4604:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 372
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05460

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4604:

```
GATCAAGGAA TCTTTCATGA AGGAAATTTA AATACAGAAT GAAACATTAA NGGTAAAAGT 60
GGAGTAATTA TTAAATTAT GTGTATAAAA GGAATCAAAT TTTGAGTAAA CATGATGTAT 120
TACATCATCT TCGGAAATAG ATATGATGGA TTCTAGTGAA GACCAAANTT ACTTCTGTTT 180
ACTTCTATC AGGAAGCATC TCCATTGTAA ATATGTATTT NCATGTTTAT TACAAAGACC 240
CAAATGANAA NTTTTNNGTC CATTTTNGC ATAGCCTAAT GGTAGACTNG GAATAANAGT 300
TCTGTATTTN TGGGATTTCC NGNGTATAAN NCTGGTTTCT AGNTGGGGCG TTAAGTCCCN 360
TTTGGGTAAA NN 372
```

(2) INFORMATION FOR SEQ ID NO: 4605:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 279
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05461

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4605:

```
GATCATGTAG GACGCGGCAT CCTGCCCCTG GTAGAGAGGA CGAATGTNCC ACACCATGGT 60
GTCTACGAAA AANAAATAGT TAGTCACCTT CTNACCTTCT CCTCTTTCTC AAAGCCTTCT 120
GTCCCTGGTT TTTGCAAGTN CTGCATTTC GCGGAGAATC CGCGTTGCCT ACTGCTGCCA 180
CCTCCTGTNC ATTTAGAACT ATGCAAAGAC TCCGNTTCCG TTTTCCTGAG CTCCTNGGGC 240
CCCAGAGTCT CTGTTTGATT ATTTATTTAT TTATTNAGN 279
```

(2) INFORMATION FOR SEQ ID NO: 4606:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 324
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05462

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4606:

```
GATCGAATTT CACATTGTAG AGATGTATAG CTGTGATTAA GCTGCATATG TATGCTGGGA 60
AACGGCTTGA GTGGATGGCT AATATAAAAG TTGTGGCCA TAATGCCACA CCTCTCATCT 120
GCTTGAAATA TGGACCAGTA TTCTAAAGTA TCAGCTACTG GGGTCTCATT CACTACAAGA 180
TAANTTCAAA CTTACAGNA CTTTGCAGCA GTTCACCACC AGGCGGGACT GTGTCTGCAA 240
ACTCNCTTGT CTTACAGAC GNCTGATTAA NGCNANNNCT CTGGNNTCTC AAAGATNTAT 300
TGGGGAGTGN NGGTTTTNTG GGNN 324
```

(2) INFORMATION FOR SEQ ID NO: 4607:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 225
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05464

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4607:

```
GATCACAGAC CTAAGGCCCA GGCCACCTNT CCANACCTGG AATCTATGCA NAANTAATTT 60
CCCCTTAACC TGGGAGGCAG CGACACGTGT NACTTCTGTA AGAAACGTGT GTACGTAATG 120
GAACGGCTGA GCGCCGAGGG CCACTTNTTC CACCGGNAGT NTTCCGATG CAGCATCTGT 180
GCCACCACCT TGCGCCTGGC CGTCTACACC TTTNANTGCN ATGAN 225
```

(2) INFORMATION FOR SEQ ID NO: 4608:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 251

- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS05465
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4608:

```
GATCTAAATN CAGACTNNGG AGTTGGGAGG AGGNACCAAA GTGAACCATC CTTCATTTAT 60
TCAGTCATTC GTTCATCTGT CAAACACGTA TTTGGACATC AAGGTTGCAG AGATGAACAA 120
TGCATGGNTT TCATCTTTNA GGAGTTCAAA ACCTAGTGGA GAGANCACAT GGTACAATCG 180
TAACACATGA AGGTCAAGTA AGTNCTGCAG TAAAGGTACT AATAACATGT TCCTTGGNNC 240
AGNAGGATGN N 251
```

(2) INFORMATION FOR SEQ ID NO: 4609:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 239
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS05466
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4609:

```
GATCCAAGTG TTGCCTGTCA GCAGAGATAG GAGTGAAGTT GATGATGATG GTTAGATGGC 60
CTCACAAGGG ACTCTAGTGA TAGTAAAGGT TCCAGTGGCA AACACACAAG TGAAAAGTTT 120
GAATATAGTT TCATAATGTT TGAGAGTGTA AAAAATGCAT TTTTAAATTA ATACATTACT 180
TTCTGTACTA TTTTAAATAA GTGTGTATCT AAATAAACAC ATAANATGTT ATGAGTAA 239
```

(2) INFORMATION FOR SEQ ID NO: 4610:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 344
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS05467
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4610:

```
GATCATCCTG GCTGGGAGAA GTGGGACCGA GCCACCCAGC TNCATATCC CCAAGCNGCG 60
CTACAGCCGG GATGGGAGGC ACGTGGCCTC TCTTTTATCC GTCTATTTAT NTTGTAAGTG 120
TATTCGTGTG GAGGAGGTTG TTGCTTTATT TTTTAAAGGC TCTGGAGTNT TGTGTATGGT 180
TTCTTTTCAC ATCNGGGCNT CCCATGGGCA CTTCTAAGAA GAGAGGGGAT TTCTTTGAAA 240
AGGAGAGAGG AATCCCCTAG AGCAGGGGAA GCANTGCCTG CCAGCTNTTG TGCACCTTNC 300
GGGNGAANTT AAATATNCNN NAAATTTTCA AACCAGNGAA AANN 344
```

(2) INFORMATION FOR SEQ ID NO: 4611:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 128
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single
 - (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05468
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4611:
 GATCTCTCTC TCTCTCTCCC TTTCTCTCT CTCTGTTGGA TGCTTCTGTA TCTTTTCCCA 60
 CAGCATAATG TCTGGTGTGA TGGGGAGCTA TTTATTGAAA TNAAAGATTA TNTATTTGTG 120
 CCATGAAA 128

(2) INFORMATION FOR SEQ ID NO: 4612:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 92
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05469
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4612:
 GATCCATTTT TGGGATAGAA TTGTATTTT TAAGTCATTT TTTTCTTG AAATGGATAT 60
 GTACAAATAA AATAATGGA AGACAGGATA AA 92

(2) INFORMATION FOR SEQ ID NO: 4613:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 130
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05470
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4613:
 GATCCAACAC ATTCAAGTCA GTAGAANCAA ACCAAAACAT GCAAGCTTCA GCCTGNTCGA 60
 GTTCTATAGT TGTCACCTAA ATCGTATGTT GTATGATACA TANGGTTATG TATTAGCNCG 120
 TAGCCGNGGN 130

(2) INFORMATION FOR SEQ ID NO: 4614:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 279
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05471
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4614:
 GATCACAGCT NCCCTTGAAT CTCATTGCCT CAGAGAAGAC TAGAGGGCTC TTGGACTATC 60
 CCTAGGGGCTA CACAAGAATA GTTCAGCCTT CTGCCATGCC ACACAGCCTC AGCTTGAATC 120
 TGGTTCATTG CGTCCTCGTG TTCTTCTCTC ATCCTTGCCT TANACCAGGG ATTCTGATAC 180
 CGAAGAAGAG GGGCCAATGA AAACCATGGA GTCTGTTCTG GACTCCCAGG GCTGGGACAT 240
 TATGTAGGAG CCACTTCATA AACATTCTCT TTACTCAA 279

(2) INFORMATION FOR SEQ ID NO: 4615:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 333
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05472

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4615:

```
GATCAGTCAT GTGTCCGTAA CCTCGTTCCA TGACATCAGG ATAGCTGTGT TTGCACACCA 60
TGCTCCATGT NCATTCCGAG CCAGGAGGGG TTCTNAGTGG AGCCTGGCTT AGGGAACAGG 120
GAGCGATGGA AGAATGCCAA CATTAGCGTT GGTCTTCTCT TGTNAGGAAT NAAGGATGCT 180
TGCACACATG CACCCCCTCA CTCTCACACT TGCACACATA CACACACACA CACACGAANA 240
TGGTTGGTTT GTCAAANCTC ACTGTAGTAC ATAAAGNTTG CACTCTGNGT NNNNATATCT 300
AGCNGNATGG GGGGTACGNT TTGGGCNGGT GTN 333
```

(2) INFORMATION FOR SEQ ID NO: 4616:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 335
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05474

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4616:

```
GATCTCTTCC CACCTACCCT ACCTACTCCT ACCCAANACC CCCCTTCCCC ATTAATGTGA 60
GTAATGAATT AGCCTGACCA CAGGTGGTCA CTGTAGGCTA ATGGAAAATA CCAAGGGNG 120
GGCAAAGCCC CCCATCAGAT GCATGAAGGT TTGCNAATGT TGACTGCCAC TGCCCCACAC 180
ACTGTGTCTT TATAGANTTN CCCTTTGCCN CACCCTCTTC CTGTNTCCAA CCTGGGACAC 240
ANCTTNGCTC AAAGNGCTGG TGGNTTGTGG GGCATTAATC TACAACCANA GTCCTGAATG 300
GAGGCAAAGA GGGCCCCACN GGNTTTGNGG GGNTN 335
```

(2) INFORMATION FOR SEQ ID NO: 4617:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 131
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05475

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4617:

```
GATCCATTCA CATTGCAAAC TTATCCTACT GTATAGCCAT CCATTGTAAG AATACATTTT 60
TCNATTTATA TTGTGTACAT TACTCCAGTG AACATTCTNN ANCTCCTCTT TTNGTATCCT 120
GTGCAAGANT N 131
```

(2) INFORMATION FOR SEQ ID NO: 4618:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 323
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS05476
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4618:

```

GATCTCAGCT ACGTGGGAGG CTGAGGCAGG AGAATCTCTT GAACCTAGGA GGCAGAGGTT 60
GCAGTGAGCC AAGATTGTNC CAGCCTGGGC GACAGGGTGA GGCTCTTGTC TCAAAAAAAAA 120
AAGTCCACAT CTTTCATGANC CCTCAGACTC TGGAGTTGGG TGTCGGCTTT TTTAGCCAGN 180
TTTTGTGGGA ATTGCCTTTN NCCTATTAAA GANGGAANGT GGGTAATGGA GTCCCAGCCA 240
CTCANGAGNC TGGNTATCCC CCGAGANTGG CTTGGGTAC CAGCTATGGA CCCTTGGAAG 300
ATGANTCTAN ATCCTTCTCA CNN 323
  
```

(2) INFORMATION FOR SEQ ID NO: 4619:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 346
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS05477
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4619:

```

GATCACCTCT CTGTATCCCC CACCCACTAT CCCATTNCC CTCCTCCTCA GCTAGGGCCA 60
CGCGGCCCCA CATTGCACTT CTGGGGGGTG ACCGACTTCG TACACGGGT TAAAGTTTAT 120
TTTATGTTT TAGTCATTGC AGAGTTCTTA TTTTGGGGGG AGGGAAAGGG GGCTAGTCCC 180
CTTCTTTTGG CCCTCCGCCC CCGCAGGCTT CTGTGTGCTG CTAAGTGTAT TTATTGTNAT 240
GCCTTGGTCA GGGCCCCTCT ACCCACTTCT CCCAGTAAGT TGTGGCCCCA AGCCCNATATC 300
CNTGTGCTGT GTGGAGTGGN CAACCTGACC CCCGNAAGNG GGNNAN 346
  
```

(2) INFORMATION FOR SEQ ID NO: 4620:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 343
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS05478
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4620:

```

GATCTTTTTTA AGGATAGACG TGGTCTCATG CTTCTTTTGT NCGACTCCGT TTAAAGGAG 60
CATTGTAACC ACTATCCTCA TCCCTACAAA AATCCAGTGG ATGCACTTCC AAATTACTTC 120
TGTCATTTTG TATGTGTTGT GTTTAGGGNT GCGTAATTTT CACTGGATGN TGAGATACAT 180
GGTGATACTA TGTCAGTTTA TTCTCTGTGA ATATGTCTGT ACATAGNCAG GAAGCTCTAC 240
TTATTTGTNC ATAGGCTGTC TGANGTATGT ACTTCTGTCA CATGGNCTTC ATTCTGATAA 300
AGGGTGTTTC TCCCTTGNTT CACTGTCCAT ACCTTTGTGN NGN 343
  
```

(2) INFORMATION FOR SEQ ID NO: 4621:

- (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 50
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05479
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4621:
 GATCCTTCTG TGCTTGCTTG CATCTTAAAT AAAGACATGT TCCCGGCAAA 50

(2) INFORMATION FOR SEQ ID NO: 4622:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 170
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05480
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4622:
 GATCCAGCTA GGCTGGGACA CTCCTAAAT CAGCTGCGTG TTGTTAGCAT CAGGCAGAAT 60
 GAATGGCAGA GAGTGATTCT GTCTTCATAG AGGGTGGGGT ACTTCTCCAT AAGGCATCTC 120
 AGTCAAATCC CCATCACTGT CATAAATNCA GNGGNAATNG NCTGNACAAA 170

(2) INFORMATION FOR SEQ ID NO: 4623:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 290
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05481
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4623:
 GATCCTCTCT GTGTAAATCC TGCCCGGTGC TGTNAAGGCT GGACGGTGGG GGACCTGCTG 60
 GGGTCTCCTG GNACCCGCCT GTTGCTTCTN CCCTCCCCTG TGGAAGGTC TATATNACGG 120
 GCTGCCTGAG GCCCCAGAAC TCGTCTGTAA ACCACCTTTT CCAGCCAGAG TTCCCAAAGC 180
 TGGAACGCTA GCTGCCTGCT CTTCTTAAG NTGGCCTCCC CCNGACCCGT CANGGTCCTC 240
 AGTTGCCAGG GCTGGGGCCA NCCACTGTNA CACTGNGGNN TGCANGANAN 290

(2) INFORMATION FOR SEQ ID NO: 4624:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 125
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05482
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4624:

GATCCAGCTT CAGCTGCACA CCTCTGTCCC CTTGGATGGG GAACTAAGGG AAAACGTCTG 60
 TTGTATCACT GAAGTTT TTTT GTTTTGTTTT TATACCGTGT CTGANTAAAA ATNCCCACNG 120
 TTAATA 125

(2) INFORMATION FOR SEQ ID NO: 4625:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 252
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05483

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4625:

GATCCTGACC CCAGCCAACA GCTGAGCTGC CGGGCCTCCT CGAGGCCCTA AGCCAGCCCC 60
 AGAGGTCCCC TCTNAAGCTG GAGTACCCTG GGGTCAGCAG CAAGAGAAAG AAGNGGAGAT 120
 TTTNTGTTTN TTTTCCCT CAGCCCTGCC ACCGTGGGGA GTCTGGTTTT TNTCTTCATC 180
 CTGTCTCTCT CCTCCTTACT CTTGGATAAA TAAACAGCCT GTGAGCACAC AGGCAAGCCC 240
 GGCCCAAGTGA AA 252

(2) INFORMATION FOR SEQ ID NO: 4626:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 334
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05484

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4626:

GATCGTNACA AATCTNCCCT CTCACCAGC TAGTCTGGGG TTTCTCTCC CTGCCCCAGG 60
 CCAGAACTGC CTTCTTCATT TCCACCACG CTCCAGCCT CTTAGCTGAA AGCACAAATG 120
 GTGAAATCAG TAGTCTCGNT CCATCTNNAA TAGACTAAAC CTAAATGCCT CTAGGACGGA 180
 CTGTTGCTAT CCAAGNGTTT GGTGTTACCT TCTCCTGGGA GGTCTGCTG CAAACTCAAG 240
 TTCCNCAGGA TGGTCAAGNT GTCANGANAT ACAAGTTTNC ATCAATTGTA ATTATTACCT 300
 GGTCTTTNCA ANTTTGCAAN GGNGTTTTGG GNTN 334

(2) INFORMATION FOR SEQ ID NO: 4627:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 192
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05485

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4627:

GATCTTCCAT CAGGGCCGGA GTAAATCCCT AAGTGNCTCA ACTGCCCTCT CCCTGGCAGC 60
 CATCTTGTC CTTCTATTCC TCTAGGGAGC ACTGTGCCCA CTCTTTCTGG GTTTTCCANG 120
 GGANTGGGCT TNCAAGGTNG GNGTNTCTGT AAAATCAACA GGTAATAAAA ACTGTGTATG 180
 AGNCCNGGCA AA 192

(2) INFORMATION FOR SEQ ID NO: 4628:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 315
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05486

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4628:

```
GATCTACAAT NAGATATCAC TTAACACTCA CTGGAATAGA TATATAATCA AAGTGATAAT 60
ATCAAGTGTT GGNGAGGATG CAGAGAAATT GGNACCCTCA TGCACTGTTG GTGGATACCC 120
ACGTGATATN AAAACAAATG TCTACACAAA AACTTGTCa CAGATGTTCT TTGCAGCATT 180
ATTTATAATA GCCCAAATG GANACAGCCC TANTTCTAT CAACTNACAG GTGAATAATC 240
ANAACGTGGC ATATCCATNC ATGGNGTATT ATTCAGCATT ANANNATGGG ATGAAGTACT 300
GGTATGCACC ACTCN 315
```

(2) INFORMATION FOR SEQ ID NO: 4629:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 51
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05488

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4629:

```
GATCTGAAAT NATGGTTCAA AAAATACATT CATAATAAAA GTCTTAACAA A 51
```

(2) INFORMATION FOR SEQ ID NO: 4630:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 337
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05490

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4630:

```
GATCAATGCC CNTNTNTCAG TCTCATCTGT ACTCACGGCA GCCCTGTGGA GTACGGTGTA 60
CTGGCCCAGC TTACAGATGC AGAAAGCGAG ACGTTCTGCC ATNAGATAAA GTCACGTGGC 120
TCTTTAGTAN CACGGACAAG GTCCTCGCC AAGGAACTCG TGGCAGAAGA GGGCAGCAGT 180
TGGCAGTAGC TGCCGATGTC TGTCCCCAGC TNCACCATTC CTCCCTGTGG CTGTGCCATG 240
CTCGTGGTTT CAGTNTCCGT GTGTNCATGT GNCTNCCCTT NAAGAGCTCG CANCTGGTGT 300
GCTTNGGGGG TCCCAGGGCT GTGTAGNGTN TTCTNCN 337
```

(2) INFORMATION FOR SEQ ID NO: 4631:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 90
- (B) TYPE: nucleic acid

(C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05491
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4631:
 GATCTGTCTA TTTCGTTTCAT CCATAGTTGC CTNACTCCCC GTCGTGTAGA TAACTACGAT 60
 ACGGGAGGGC TTACCATTTC TTCCCTGAAA 90

(2) INFORMATION FOR SEQ ID NO: 4632:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 97
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05492
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4632:
 GATCAAAGGC TCTTTCCTCT TTTGTTTGAG AGTTGGTTGT TTAAAGCTT AATGTATGTT 60
 TCTATTTNAA AATAAATTTT TCTGGCTGTG GCAGAAA 97

(2) INFORMATION FOR SEQ ID NO: 4633:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 320
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05493
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4633:
 GATCATCGTA TGCAACAGCT GGGTAATAAG ACTGGCATAG CTCAAACTAT CCTGCCAAAC 60
 GCTCTCATCT GATTTTTCTT CCCTTCTCCC CCAACCTCCA ATCACCCTGA GTCACCTGTA 120
 AATTCATTTG TCATTCAAAG CGGAATAACA AGTTGTCCCT AGCAAAACCG CTGAGCGCTT 180
 TATAATTTTG TGGTGTATTT TTGTCACTAG GTAGCAGAGG CGGAAGTATT TTTTGGTGTA 240
 ATTCTTGAAA TTTTCTGACA GGAAACCGGN TAAAGATAGA TGTGTCTGAG GNTAAAAAAN 300
 GTTNGGNNG NNNTGNTTTN 320

(2) INFORMATION FOR SEQ ID NO: 4634:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 146
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05494
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4634:
 GATCTATGAA ATAGGTAACA TTTGAGTAGG TGTCATTTAA ANATAGTTGG TGAATGTCAC 60

NTATGCCTTC TATGTTGTTT GCTCTGTAGA CATGAAAATA AACAATATCT CTCGATGATA 120
 ATTTGTATTA AGTAATCTAT AAGAAA 146

(2) INFORMATION FOR SEQ ID NO: 4635:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 177
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05495

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4635:

GATCTATCCA GCTGCTTCCT TGTAGCCAAG AATGTGTTCA ATGAATTGTG ATTCAGTGAT 60
 TTTATTGATT TTGTTTTAAA ACAGGGAGAC TGGTATTTTT GAAGCTGCTA TCATTTTCTA 120
 TTTCTNTATT AATNNCTTTG TAATCATCTT ATTAAGTTT TCTTATTAG TGGGAAA 177

(2) INFORMATION FOR SEQ ID NO: 4636:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 103
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05496

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4636:

GATCCTCTCC TTGTATGTAA TACCTTTTTT TCCCCTTTCT AGCAAGTACT TTCAAAGAA 60
 CTCTGTACAT TTTAACATAA AAAATAAATT ATGTTGAGCC AAA 103

(2) INFORMATION FOR SEQ ID NO: 4637:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 145
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05497

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4637:

GATCCATTTG TAACTACTCT TAATATATGG TACATAGTTT AAAAAATTTN ATTGAGCTTA 60
 AAGTGTATCT AGTTTTGTGT CCTAATTATC CTGCTTAACC TTCTATTGTA AGGNTTTNCC 120
 ACGTCAATAA ATATTATAAT GTAAA 145

(2) INFORMATION FOR SEQ ID NO: 4638:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 279
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05498

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4638:

```
GATCANCAAA CTCAACACCA TCTTGAGGA GCAACGGGNT GGCCTTTAAC ATTGCTGAGG 60
CTTTCAAAGA TGTGTCAGAA CCCATTGTAT TTCTGCAACA GATGCAGGAG TTTAGAGAGA 120
AAATCAAAGT AATCAAGGAA ACTCCTTTAC CTCCCTCTAA TTTGCCTGCA AGCCCTTTAA 180
TGAAGAACTT TGATACCAGT CAGTGGGAAG ACATAAAACT AGTCGGTGTG GATAAACTTT 240
CTTTGCCTCA AGACACTGGC ACATTCATTN GCAAGGNTN 279
```

(2) INFORMATION FOR SEQ ID NO: 4639:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 242
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05502

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4639:

```
GATCAGAGCA AAGAGAAAAG AAAGCATAAG GACACTTACT CAACAGAAGC ACCTTTAGGC 60
GAAGGAACAG AACAATATGT CAATAGTATC TCAGATTGAC CATTCTGTGTT ACTTGTCATT 120
TCTACTTTCA GAAACTAAAT GACTTTCAAA TTTGGGTATA GACAATAAAG AACTGAAGTG 180
CTCACTACTC AGTGATTGG AAATTTTGAT GCTTGATATA ATGTCAGATA ATTAATTCN 240
AN 242
```

(2) INFORMATION FOR SEQ ID NO: 4640:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 64
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05503

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4640:

```
GATCTTGTTA GACACATGAA TGTGTATAAT CATGTTAAAT GCAAATAAAA CTAGTTCATA 60
GAAA 64
```

(2) INFORMATION FOR SEQ ID NO: 4641:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 62
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05504

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4641:

```
GATCATNAAG GTAAGGACTG GAGTNATGCA GCCACAAACC AAGGAATATC AGTAGCCATA 60
AA 62
```

(2) INFORMATION FOR SEQ ID NO: 4642:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 339
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05505

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4642:

```
GATCAGTNCT AACCTGAGC TGGCGGCTAT CTTTGAAAGT ATCCNGAAAG ATTCATCATC 60
TACTAACTTG GAATCAATGG AACTAGTTA GATGTTTGT CACCATGGGG ACCATTACAT 120
ATGACCATAC AATGCACTGA ATTGACAGGT TAATCATAAG ACATGGAAAG AGAAGTGTCT 180
AAAAGCTTCA AAATGTTCCA CTTTTTTTTT CCTTCATGGN GACTGTTTGT TTGGCTTTCT 240
TCCATTGTNG TTTTGTAGC ATTTATTTCA GAAATGTGTA TTTCCATAAT CCAGAGGTTG 300
TAAACCACT AGTGTTTTAG TGGGTTACAG CACCATTTN 339
```

(2) INFORMATION FOR SEQ ID NO: 4643:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 70
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05506

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4643:

```
GATCTTCCTC CTTATTTTAA TGCTTCTTTC TCTTTACAAT TAAAGTTCA TAAATCTTT 60
CAACATTAAA 70
```

(2) INFORMATION FOR SEQ ID NO: 4644:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 57
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05507

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4644:

```
GATCAGCCCT AATNATGCTG TGTCCATGAT GCTTTTAATA AAAACAACCC CCACAAA 57
```

(2) INFORMATION FOR SEQ ID NO: 4645:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 158
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05508

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4645:

GATCTCTATG CCAATATGC TGCCTCAACT CTGAGCTGTC TGCAAGGCTT AGTAAGTATT 60
 GAGTGGTGTT TTTTTTTTTC NTTTTATACA ATACCATNTT AACCACATGA GTTAAATAAA 120
 TTTGAGAAGT TTTTTTAAAA CAGTGCTTCA AACTGAAA 158

(2) INFORMATION FOR SEQ ID NO: 4646:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 153
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05509

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4646:

GATCCCCGGG TACNANTNAN CCATGCAGGC ATGTTTTTTT TNATTTTTGC ATAGGCAATC 60
 CATTCTGTAC AGGTAGCTAA CTTTGTAAC GCTGTGTATT CCCTCTGCCC CCATGGCTGC 120
 TGGTGTAAT AACTGCATC TCCCGTTGGT AAA 153

(2) INFORMATION FOR SEQ ID NO: 4647:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 342
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05510

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4647:

GATCCAGAAG TCATTAAAAG AACATAAGG CTGGGGAGGC AGGGGGAGTA AGTTCTATTA 60
 GAAAATCCTA ANAGCTTAAC AAAACTAGGG TACTAAATTC AGTTATAACA TGTTACAGAC 120
 TTAAATCATA GAGCTGCCCC AACATCTAGA CAGTCTCTCC TACTGATTAT AAATGAGTGA 180
 AAATATCAG TTAGAAAAAT CTAATTTAAG TTGTTAATAC ATGTTTCTTT GGTGAGCACC 240
 TGGATATANT TATCACAAAT NCTTTTATAC ATATGTCGAA AATGCTTTCA ACAAACCTAA 300
 GTGTCCTAAT TACATGCCAC TTTTTTNAGG CTCACCTTAT GN 342

(2) INFORMATION FOR SEQ ID NO: 4648:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 333
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05511

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4648:

GATCGCTACG GTTCTAAATA CTGAAGTCAT GATGTGTATT TCCNGGAGAA ATTCCTCTTT 60
 AAATGAACAA GTAACCACAT CTCAGGCGGC AGTGAAGTCC AGATAGTTTT GCAGATTGTT 120
 TTGCTACTTN TNCATATGGT ATATGTTTCT GNTTTTAAAT ATTNCTNTTG AGAAATTCTG 180

AGTNCCTGATG TAGGAGCTTT CCTGTNATNN CTGTTTCACG TTCCTTCCTG TCACACCCTC 240
 CTTGTGGCGT CTCTGTGTAT ATCCTNGGCT TTATTTTCTN GGANCCTGN GATTTCACA 300
 CTGNGGGCCT GGAGACCTCG GCTCCTNCTG GTN 333

(2) INFORMATION FOR SEQ ID NO: 4649:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 187
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05513

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4649:

GATCATGAGA AATTACCAA ATGTCCACCA ATAGAATGAG TGAATCACCT GTGGTATATT 60
 TATAAATAAA AATATTAANT AGAAGGTAAA ACAAATCAGA CATAACACA TTAGATAGAT 120
 AAATTTAGAG GAAAAAAAAA AAACCATGCA AGNTTCAGCT NCNCGNGTNC TNTGGTGNCA 180
 CCTAANN 187

(2) INFORMATION FOR SEQ ID NO: 4650:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 228
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05514

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4650:

GATCGAGGGG GTATGCGTGG GGGAGTTGTG AGTGAGCTCA GTCCTTTCA GGCCTGGCCT 60
 CTCCCAGAAC AGAGTGAAGC CCCTGCCCTG GACCCCTGCT CCCTTCTACC CTTGAGGGCC 120
 ACCAATGGAA GAGCCCGCCC TTCATTCTGC AGCTCCTGCG GCCAGGCTGA GCTCTGCCCC 180
 CAACCTTTGTT TTCTCTCATG TTCTCAATAC ACTCTGCCTC AAATCAAA 228

(2) INFORMATION FOR SEQ ID NO: 4651:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 300
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05515

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4651:

GATCTGTAGT TAAGGGAACC AAGGGGTCAT TGGGGCAAAA GCATTGTTTC TCAAAGCTCC 60
 TTGATTAAGA GAAAGAACAG AAATTTGCAC AGAAGATAGT GTCAAGGAGT GAGAAAGTTT 120
 GTTTGAGGGC AGTAGCTCAG TGTGGAAGAA AATCCTGAAG TTTCTGTTGA AGCCATACAA 180
 TGTTCTATGG GGTTACTCTC TAAGACATTC TCTGAGGTGT GTGAGGAAGT CACTACTCCT 240
 AGCCTTTGTT AAGATGTAAT TTAAATATT CAGTTATGGT ACTATGTTTG CAACTCTCTN 300

(2) INFORMATION FOR SEQ ID NO: 4652:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 154
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05516
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4652:
 GATCAGTTTA TATTGCTCTT AAATGATAAT CCTCAGCTTC CAAGTTTTTG TGAAGTCACT 60
 TTGGTTTATG TGTTTGCTAC ACTCACTGAG AAATTAAACA CCTTGCTTGA TTTATTGTAA 120
 AAAGGAAAAA ACAACAGAGC CATACTTAAG CAAA 154

(2) INFORMATION FOR SEQ ID NO: 4653:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 250
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05518
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4653:
 GATCTTTATG CTGTTATNAC AGGAGAAGTG ACATACTTTA TATATGTTTA TATTAGCAAG 60
 GTCTGTTTTT ANTACNATAT ACTTTATATT TCTATACATN TATATTNCTA ATAATACAGN 120
 TATCACTGAT ATATGTAGAC ACTTTTAGAA TTTATTAAAT CCTTGACCTT GNGCATTATA 180
 GCATTCCATT AGCAAGAGTT GTACCCCCNC CCCAGTCTTC GNCTNCCTCG GGNTTAAGCT 240
 GTTTTATGNN 250

(2) INFORMATION FOR SEQ ID NO: 4654:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 240
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05519
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4654:
 GATCCCCACC CCAATTCAAT CCCGGAAGGG ACTTACTTAG GAAACCCTTC TTTACTAGAT 60
 ATCCTGGCCC CCTGGGCTTG TNAACACCTC CTAGCCACAT CACTACAGTA CAGTGAGTGA 120
 CCCCAGCCTC CTGCCTACCC CAAGATGCCC CTCCCCACCC TGACCGTGCT AACTGTGTGT 180
 ACATATATAT TCTACATATA TGTATATTAA AACTGCACTG CCATGTCTGC CCTTTTAAA 240

(2) INFORMATION FOR SEQ ID NO: 4655:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 290
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05520

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4655:

```
GATCCAAATA GTCAGAAAGA AAGGAAGGAA GTGCTGGTAA GAAGGAAGGG AGGAGCGTAT 60
CCTAAAGAAC TACTCCCAAC TATACAACCTG TTGTTTTCTT CCCAATTTTC CTAGGGGATTC 120
CTCATAATTA TCTCCTTTCT CTTCATAAAT TCTACTTACT GACCTGAAAT AAAATTTCTC 180
ATTTGGTTGT CCTCAAGGTG CAGAATATGG ACTTAAGGCT CCTCCAGACA ATTCAAATGT 240
ATTGTAGACA GTTAAGNTAG AGTAAACTC ACCGTTTTGT CCCACTGAAA 290
```

(2) INFORMATION FOR SEQ ID NO: 4656:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 355
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05521

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4656:

```
GATCGACAGG CATCCACAGT TGAGTATCTC CCAGGCATGC TACATTCAA TTGCCCTAAA 60
GGTCTCCTAC CCAAATTCTC CACGCTGGTC TTNGGTTAAA CTAGGCCCTG CTAAGTCTTA 120
TAACTTTCAT ACAGGTTTGG ACCAACAGGG CTTTATTCCA GGANCAAATT ATCTTATGCC 180
TTGGGACATT GNCATCAGGA CTAGAGCTGN AGATGAAGGA GACTTAGACA CAAACTCTTG 240
GCCTGCTCCA AATAAAGCTA TTCCTNGNAA GAGNAGTGCG GTTGTAATGG NTAAGAGNGN 300
AGANCGGCGA GATGACATTG NTCGAGCTTN TNNTGGNCTT TGAATATNGA AGTCN 355
```

(2) INFORMATION FOR SEQ ID NO: 4657:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 382
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05522

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4657:

```
GATCCGCAAA CGATTAAATC TGTCAGACAA AGGGCAGCTG GATTGGAAGA AGATGTATTT 60
CAAACCTGTC CGATGTTACC CAAGGAAAGA GCAGTATGGA GATACCCTTC AGCTCTGCAA 120
ACACTGTCAC ATCCTTTCTC GGAAGGGCAC TGACCATCCG TGCACTGCCA ATAACCCAGA 180
GAGCTGCTCC GTTTCACTTT CACCCNNGGN CTTTATCAAC TTGTTCAAGT TCTGGNATCC 240
CAGCACATGA CAACACTTCA GAAGGGTCCC CCTGCTGACT NGAGAGCTNG GGAATATGGC 300
ATTTGGACAC TTCATTTGTT AAATTAGTGT ACATTTTAA ACATTGGGTT CGGNNACTT 360
TCAGNGGTNA GGTGCGNGNN TN 382
```

(2) INFORMATION FOR SEQ ID NO: 4658:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 326
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05523
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4658:
 GATCATTAATA AACTTAAAT ATATTTTATT AGAAAACATT TATCTATGAA TGAATATTTT 60
 CTTGATGCTG GTCTCTGCAC ACATATGCTT GGTTACTTGC ATGCATTCAT TGGTTGTTCA 120
 ATAAGTGAGA TGATTACAGA TAACTTAATA CTGTATTTNC CTTATATGGA AAACCGTTAT 180
 AGACCCAATA ACAACTAANC CTTTCAAAAG AAANTATTTN CTATTATGAN TGTTGATTTT 240
 CATACCNAAG AAGATGGAGA GTCTAAAATT TGGGNTATGG ATNCTNGATG GNNTTTTAN 300
 TNGGNAAGCC TTCTTNCAAG TTTNAN 326

(2) INFORMATION FOR SEQ ID NO: 4659:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 133
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05524
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4659:
 GATCAGCTTT GCAGTAGATT ATGCTGCATC CTCGTGGCAA AATTCTGTAT TCTTAGTGAT 60
 TGTTACAAAC CCCTTTATTG CTGTCTGAGA AAGTGAAAGA TTGTGTATTT CTATTAAAC 120
 ATTTACAATC AAA 133

(2) INFORMATION FOR SEQ ID NO: 4660:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 264
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05525
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4660:
 GATCAACATC CGGAGATGGA TTTTNCCAAG GCTAAATTCA ACTAGCCCCT GTTTTTTCCT 60
 CCCTGAACTC TTGGGGCTGA GCTGCAACCA CCAACTTTC TTTCCCACTC TTCTCTGGGA 120
 CTTGTGGGCC TCAGGGCTTG GGGCAGGCAT GGGACTGGCC CAGGCACACA GGTCCCGGGG 180
 CATCAGGAGA AAGGCTGGGT CTTGGGACCT TGTCTCCCC AGTTGGCCTA CTGTTACACA 240
 TTAAAACGAT TTGCCAGNT CAAA 264

(2) INFORMATION FOR SEQ ID NO: 4661:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 319
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05526
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4661:

GATCACCTNT TCCCTTCAAT CCTTGTGGCT TCTGGGAATC TTCAGAGCCT GGGTCTGAAA 60
 GGTGTTTTCT ACATGTCTCA GGGCTGGATG CAAACCTGGC TGGGGACCTG AGCATCAACT 120
 CCCATTTAGA ATCAGACATC TCCCTTCCCT GCAAATTGTC TACAACTACC AAATTGCTCC 180
 AGGTTTGAGA TGGTATTGCT AAATTTAAAA TTAAACAAGN GACCCANCAN CAGCTTTTTA 240
 AAGTGTCTNC TATTTTCATN GTATTTTNT NAACCTTGGC CCCANTTGNT AGAAAAGTCT 300
 TTTGCNGAAA TGNATTTNN 319

(2) INFORMATION FOR SEQ ID NO: 4662:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 239
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05528

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4662:

GATCAAAACA GTGTGGTGCT GGCAAAACAA GAGACATAAN TCAGNAGAAG AAAGAGTCCA 60
 GAATTAGACC CACACACATA TGGACAATTG ATTTTTCAT AAGGGCACCA AAGCCATTCA 120
 ATGTATAATA GAGAAGACAG TTTTTTTC AAACAGTAT TGGANCAGTT GNNCNCNTAC 180
 AAAAAGTAAA CTTCANCCCA TACCTCACAC TATATCTAAA ANTTCAGCATC AAATGGNTN 239

(2) INFORMATION FOR SEQ ID NO: 4663:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 68
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05529

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4663:

GATCTATTTA GTCCTACAAA TCAGGAGTGG TGTAGAGACA TCCAAATTTA AAGAAAAAAA 60
 AACACAAA 68

(2) INFORMATION FOR SEQ ID NO: 4664:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 122
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05531

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4664:

GATCGAGTTT TAAATTGATA GGAGGGAACA TGTCTTAATT CTNCTGTCCT GAGAAGCATG 60
 TAATGTTAAT GTTATATCAT ATGTATATAT ATATNTNCNC TATGTATATA CATATATNTN 120
 AN 122

(2) INFORMATION FOR SEQ ID NO: 4665:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 196
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05532
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4665:
 GATCAGGGAC GGGGCTGAGC TGGAGAGTGT GCAGGATTGA TTAATGATGT CTGCCACGGT 60
 CAGGCCAACT GCTGTGTTTC TGGGGCCAC AAGCTAAAAA TGGTTGGAAA AAAATCAAAA 120
 CATTAATATT TGTGACATAT GAGAATGCTA TGAAAGTCAA CTTTGCTATC CATAAATAAA 180
 GTTTTATTGA CATAAA 196

(2) INFORMATION FOR SEQ ID NO: 4666:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 316
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05533
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4666:
 GATCAGATTG CTCAACTCCA TTATAATTTG TTTCCAACT AATCTGTTCA GGCAAGATAA 60
 AGATATAAAT GTGGATTGTT GCTGAGGTTA AGTCTGGTCA GATTTTNCCA NTTATGCTTG 120
 AAAAGTAACC ATATTTCAAT CAAATATATA ATATGTATAT NTCATAATAA TATANGCAAT 180
 ATTAGTCTCA TTATTAATTC AAAANTCTCA TCTATATTTT ANCACTGTAG AACATTATTA 240
 NNTGANTAAN TGACCTATAA NTATTTGGTG CCTGANGAAG TCACTTTGCT ATTANTNATA 300
 CGGTGTAGNG TGTGGN 316

(2) INFORMATION FOR SEQ ID NO: 4667:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 168
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05534
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4667:
 GATCTCAGGG AAGCCTGGGA GTCCCTTCTC ACCCCTCAAC CTCCGGAGTC CAGGAGAACC 60
 CGTACCCCCA CAGAGCCTTA AGCAACTACT TCTGTGAAGT ATTTTTTGAC TGTTTCATGG 120
 AAAACAAGCC TTGGAAATAA ATCTCTATTA AACCGCTTTG TAACCAAA 168

(2) INFORMATION FOR SEQ ID NO: 4668:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 311
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05535

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4668:

```
GATCATCCCA TCCTTGACCA CAGGGACAAG AGGGGCCCCC TCGCCCCAGC CCCACCCAC 60
ATGGAGCTCA GGGGGAAGCA GGGAGGGGTT CCCAAAAGAG CCCTGCGGAG GCTAGGAGTG 120
GTTCTTGATG CTCACCTGAA GCCCCTAGAC GCTGCTAGGA GGGGGGGCCC TCCTGGGCCC 180
NAAATACCCN TCCGCTTGCC GCTGCTAGCG NACCCCTGCA GTCCAGCGTG CATCCACCCC 240
ACGNACGTCC CGTGCTGTGT TCCTGGGCCN TGTCCATGGC CTNAATAAAC TCTCTGCTTG 300
GGTGTGACAA A 311
```

(2) INFORMATION FOR SEQ ID NO: 4669:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 167
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05536

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4669:

```
GATCGCAAGC TGTTGATGCA CAGGCGTCTT GTTGCAAGC CCAGCTTCAG TTTATGTTAG 60
ACAATCAGTA CACATGCTGG TGTGTTTTCC AATGGCCAGT NATAAGAAAT TAAATAAGTA 120
TTTGTGAGAT TTGCTATTTT TTAATAAAGT AATTNTTTTA AATTAAA 167
```

(2) INFORMATION FOR SEQ ID NO: 4670:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 118
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05538

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4670:

```
GATCTCATAC TTGTATAGAG TAATAACAAC AGTTGTACTT CCACCAAAGG CATGTGGCAT 60
ATTTACCAAT GTCATGTATT CTGAACAAAG GCAAAAAATA CAAATTCCTA CCATTAAA 118
```

(2) INFORMATION FOR SEQ ID NO: 4671:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 311
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05539

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4671:

```
GATCCTTCAA ATAGGCCCTG AGATGTGAGG TCTGCTGCTT CACTGGGGCC CGATGACTTT 60
GGCTGGGGGA GGGGGCCTAG GGCTCTNCTC ATTGAAAGCT CTGCTTTATA CAGACCCAAG 120
CATACACACC AGGCCGTCAC TTTGGGTTCT GGCATAAGTT CAGAACAATT CAAGTCCATG 180
```

TGTCCCATGG CTGGTCAGAG CCCTGGGTCA AAACCACTCA GCCCAGGGGA GGGGATGAGG 240
 CATTGTCACC CTAGAQCCT CTTCTCTCT CCCNCACCAT AGTGTGCAAT AAAGTGTCTG 300
 TTCTTACCAA A 311

(2) INFORMATION FOR SEQ ID NO: 4672:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 338
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05540

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4672:

GATCTTGTCAGAGCTGCACC TCTCTGTGAA CTGGCCATTC CTTTCGGTGC TGCTGTCCTT 60
 TTTGGGGGGG TTCCTGATTT CTGTATACAT GTAGCTTTGC CAGATATGTA CTTAGTAATA 120
 TAAACTGTAT TAATAAAATC CATTACTGT GTAATACACG AGTTTAAAAA TTAAGAGCGA 180
 TTAGCTGTTT ACTTTGGTAA CAGGTAGTTA AGTGTACAC AAGGTGTTGT TGCAATGGCA 240
 TGACGGTGAC CTGTTGGNGG NACTAAGCCT TACAGCAAGG CATGTGCCGN ACGTGCTCCG 300
 TGGTACTTAG AGCCCTGGGG GCCCGNTCG GACTCCGN 338

(2) INFORMATION FOR SEQ ID NO: 4673:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 117
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05541

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4673:

GATCTGTTTA CAAGGTTTGT AGATACTTTT TTTGTTCTG TTCATAGATG GGAAGCTTCC 60
 TTATAACTGA TGCAGAGAAA AATTAGTCCT TCAAATACTG CTGTATTTTC AGGAAAN 117

(2) INFORMATION FOR SEQ ID NO: 4674:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 279
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05544

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4674:

GATCAGTGTT GCTAGTAGCT TGGCAGCTCT TCATAAAAGC ATATTGGGTT GGNAAGGTGT 60
 NTGCNTATTT TTCAAATNAT TTAATAGATG TNTGGTACCA TTTAAAAGTG GTTGTGTCTG 120
 AATTTACTGT GGGGATAACA TACACTGTAA TGGGGAAAAA TTACCTAAAA CCAATTTCAA 180
 AANGGCTTTC TNTGTATTTT AGTTTAAAAA CCCAGTGCAT GATNCGCCCT CTGGAGATGC 240
 AATAAACNCC TTNGTGCCAA AGGNGATTGC CNGNGGAGN 279

(2) INFORMATION FOR SEQ ID NO: 4675:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 137
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05545
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4675:
 GATCTGTAAT AAAATAGTAT ACTGGACTGT GCATCAAAGG GATGTAAAT TACAGTATTC 60
 CAAAGGTTGA AGTTCTGCTG TTTTGTATA ATGCCTGATA CACATCTTGA ATAAAGTCTT 120
 AACATTTTNC TTATAAA 137

(2) INFORMATION FOR SEQ ID NO: 4676:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 259
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05547
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4676:
 GATCATAAAA ATTAAAATGT GAATGTCAAC AATAAAAAGC AAGACTATGA AAGGCTCAGA 60
 TTTCTTGCAAG TTTAAAATGG TGTCTGAGGT TGTNCTATTT TGGCCAAGTC TGTAAGAAAGC 120
 TGTCATTTGA TTTTNATTAT GTAGTTCATC CAGCCCTTGG GCATTGTTAT ACACCAGTAA 180
 AGAAGGCTGT ACTCAAGAGG AGGAGCTGAC ACATTTCACT TGGCTGCGTC TTAATAAACA 240
 TGANTGCAAG CATTGGAAA 259

(2) INFORMATION FOR SEQ ID NO: 4677:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 261
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05548
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4677:
 GATCATCATG ATGAGTTTTG CCTTATGCCT TGAATCTTNA GGTTAATAGT CATAAAATCC 60
 CTGCTTTCTA AATTCGCATT TTTCCTGGTG TACCNTTAAT GTGAACNTTT TGGCATTCTT 120
 CTGCAATNTT CTGATTGGAG ATTGCATTTT GACCTAGTCT GTAAGTTTTT CTGTCAGAAG 180
 AGGACTTTCA TCAACTTTCA NGGNAAGATT GTTTATTGGC ATACTGTAAA GTTAAGTNAN 240
 GCANTTTNAA AGTNGTCTAA A 261

(2) INFORMATION FOR SEQ ID NO: 4678:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 183
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05551

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4678:

GATCCGATTT TACCTTGGAC CCCTGCGTCT TGCCCCCTGGG AACCCANATG GGGACTGCTC 60
 TGAACCTTTG GATGACATNT GTGGCCCCCG AGATGTTCTC AACCCAGGGG TGCCCTTCGT 120
 AAATGTTNCT CCATCCTCAC TGTACCAGGA GTGTGTGAAT AACACAGAC CCCCTCTGTG 180
 AAA 183

(2) INFORMATION FOR SEQ ID NO: 4679:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 234
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05552

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4679:

GATCCAGTG ACGTGAAGT CATCAGAACC CCACGGTACT TTGAGTACCT CTCTGCACCA 60
 AGATAGCTGA CTGNTTTTCT GCTCAGTCAC AATTTTACTT GNAAGCAAGN ATTGTCCTAG 120
 NTCCTNTTCC ATTATTCCAA AACGTTTAAAC GTTCAAAGCA GGGTCTCATT AAAANCCCAA 180
 CTACTGGTTG ATATAATTGA GATATTACAA TTTCAGAATA AACATTGAT TAAA 234

(2) INFORMATION FOR SEQ ID NO: 4680:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 316
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05553

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4680:

GATCAGAATC TTCAAGAATC AGTTAGGTTT CTCAGTCAA GAAATAAAAT GTCAGGCAGT 60
 GAATGAATTA TATTTTCAGA AGTAAAGCAA AGAAGCTATA ACATGTTATG TACAGTACAC 120
 TCTGAAAAGA AATCTGAAAC AAGTTATTGT AATGATAAAA ATAATGCACA GGCATGGNTA 180
 CTTAATATTT NCTANCAGGA NAAGTCATCC CTATTTCTTT GTNTTACTGC ACTTANTATT 240
 ATTNNGTTGA ATTTGTNCAG TATAAGCTCG TNCTTGTGCA AAATTAANTA NATATTNCTC 300
 TTACCTNATA NCANAN 316

(2) INFORMATION FOR SEQ ID NO: 4681:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 304
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05555

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4681:

GATCATCCTG GAATCCGACT CTGTCTCAGC TCAAGGGGGT TCNGAGATTT CCTAAGCTAG 60
 CCCTCTCATT TTACAGCTGC AAAACGGAG GCCTGTTAAT TCAGTCATTT TATGAAATCC 120
 TTTGAAATTT TTATTGAGCT CTAATTGTGT GTGAAGTATT ATGGAATGCT TCTGTACTGG 180
 AATGCATAGG TTGAACAAGA CAGAAAGGCC CAGATGGCAG AAGTTCAAGA NCTTTCACCA 240
 ACCCATATAG NGAACCTAGT AATATTAATG ACTAATGTTA ATGGANTCCA TGCTTTGTTA 300
 CGAN 304

(2) INFORMATION FOR SEQ ID NO: 4682:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 287
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05556

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4682:

GATCAAATCG GAGTACTTAG CATATCTATC ATCTCGTGCA TTTATCATTT CTTTGTGGCG 60
 AGAACATTTA AAAATCCTAT TTTCTAGCTA TTTTGTAATA TACTACTACCT TACTGTTGCG 120
 AACCATAGTC ACCCTACTGT GCAATAGAAC ACCTGAAGTT ATTCCNCCTA TCTAGTTGTA 180
 ACTTNGTACC CATTGNCCCC CCNTCCCTNC CTTCCACTCT CCCCTCCCCA GNCTCTGGTA 240
 ACCACTGTTC TGTTCCCTAT GAGATAAAAC TTTTGTGNC TTCCAAA 287

(2) INFORMATION FOR SEQ ID NO: 4683:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 298
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05558

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4683:

GATCTTTTGA AGATTGCTGG AATACTGGTG TCTGTTAGAA TGCTTCAGAC TACAGATGTA 60
 ATTAAAGGCT TTTCTTAATA TGTTTTAACC AAAGATGTGG AGCAATCCAA GCCACATATC 120
 TTCTACATCA AATTTTTCCA TTTTGGTTAT TTTTATAATC NGGTATTGCA TTTTGCCTTC 180
 CCTGTTTATA CCTCAAATTG ATTCATACCT CAGTTTAATT CAGAGAGGTC AGTTAAGTGA 240
 CGGATTCTGT TGTGGTTTGA ATGCAGTACC AGGNTTCTCT TCGAGCAAAG TAGACCTN 298

(2) INFORMATION FOR SEQ ID NO: 4684:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 297
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05559

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4684:

GATCCATCTT CCTTACACTC CTTCCAAAT AATGTTAATA CTCTGTCTAT CAAATGCTTA 60

CAGTGTTCCTC TAGCACATAT AGGGTAAAGT CAAAGCTCAT TAGCAGGGCA TAGGAGGCCC 120
 TTCATGACCA GCCTNACCNG CACCTCTAGC TACATCTCCT ACTGNGNCA CCTCCACATT 180
 TACCCTTCGG CATGCCAACC TGCTTATGGT TACGGGGCAC AGCTTGCTGT TTTGGNTNNT 240
 GTGCCTCCCN TTGTTTTGCT TCCTGNTGNT GAANTNATGN TGGGACCATT CTTGTGN 297

(2) INFORMATION FOR SEQ ID NO: 4685:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 120
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05560

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4685:

GATCAGATTC ACTGTTTCAT CATATTTATT GTAATATATT TTTTGTTTTG TAAATATGTT 60
 ACAACAAAAT GTGATTGGTC TAAAATATTT GTAATGTATA TTAAAAGGTT CAAAAATAAA 120

(2) INFORMATION FOR SEQ ID NO: 4686:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 53
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05561

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4686:

GATCAGAGGA GTTCAGGGAG ACATACATAA AAATGTTAAT CACGGTTTTTC AAA 53

(2) INFORMATION FOR SEQ ID NO: 4687:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 363
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05562

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4687:

GATCGCCAAG TGCAGGCACG GCATCGCATC CCCAGGTGTC ATCCTGTGAC CCAGGAGGGG 60
 AAGATGACAC ACCCAATTTA GGTAATGCTG CACTTCTNGT TATAATTGGT TATTGGAAAA 120
 TGTGCCTTTA TTATCAGAAC AGTGGTGTGC GCATTTCTGA TTATGGAGCT AACTTTTGGA 180
 TATCTGACTT AGATACTAAA AACATTTGGG TGTTCAGTT TTGCACTTGT AGATACAAC 240
 TAAAAGCATG AAACTGGTGA TTTAATTAGA TGTTTTCTAT AAAATGCACC TTGTTACATT 300
 TCTGTGAAAG GGGTCTTACC AGCGTGAAT AACNTGGCTC AAGGGTTTGA GGGGANCANC 360
 NGN 363

(2) INFORMATION FOR SEQ ID NO: 4688:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 109

(B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05563
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4688:
 GATCCACGTG TACTGGCACC TCAGAAGACC AAATCATGGN CTGTACAAGT CTCTATACAA 60
 TGTCTTTATC CCTGTGGGCA GNANGCAATG ATGATAATGN CAANCAGGN 109

(2) INFORMATION FOR SEQ ID NO: 4689:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 369
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05564
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4689:
 GATCAGAAAG CATTCAAGTCC AGTCAGAATT CAAGGTGGGA AAAGTAGGTG TATTTCTGAN 60
 CCATTTGGGA AGGAAAATCA TTTTCTGAA CANCACTACC TGCATTTCTG TTTCTGCAGA 120
 CAATCAAAAA ACAAAACCANT AAAANTAAGT AAGTGAANGA AAGGCCANTT AGCATTATTC 180
 ATTTGCCTTA GGTTTACAGG GTCACAGATT CATTAGCTTA ATTACATCCT CATTTTGGNT 240
 GCCAAAGAAT GGAGCAAGAG CANTCAGTAT TGCTANCTGG CTCTTGCTTC TTCTTCCTGG 300
 GTTTGTTTTG GTTTTNCAGA GAAACAGGGA AGNGAGGGCA TTNGCANNAGT ATAATTGGTN 360
 TATAGGAGN 369

(2) INFORMATION FOR SEQ ID NO: 4690:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 70
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05565
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4690:
 GATCATAAAT GTACTTGCTG AATTCAATCA TTTTAAACAA GCCAATAAAG TTTGATAATT 60
 CATCTCCAAA 70

(2) INFORMATION FOR SEQ ID NO: 4691:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 293
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05566
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4691:

```

GATCCTCAAG GCCTTGCTCT NCCCCGTGGA GACGCTTGCT CGGATGAGCT CAGGAAACAG 60
TACCGGCTGC GTGGCAGGTC TGGGTGTTGT GTGCGAGGAC GTGGCCTTTG CACACCGCTG 120
TGTTCTCAGA GGTCTTAGG AGATATTTTT TTTTGTCTTA GGGGGACTGT NTTAAGTTCA 180
GACAAATCAN GCTGGGTGTG GAGAGAGTCT GAAATACGTC AGTGAAGTAA GTAGCAGTGA 240
GCGATTGTGA ATTTGNANTN TAAATGGAAA ACCGGGTTT TACCGGNGTT TTN 293

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(2) INFORMATION FOR SEQ ID NO: 4692:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 251
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

(vii) IMMEDIATE SOURCE:

```

(B) CLONE: HUMGS05567

```

(ix) FEATURE:

```

(D) OTHER INFORMATION: "N"=unidentified base

```

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4692:

```

GATCAAACTC TTCATTGAAG TACTCATNAG GCGTGATGGC TGTGGGGTTG TTTGCAGTAG 60
CACATTNCGT GGTGAGGTCC TGCTGAGCCA GNACTCAGGA GAGTCAGAAA TGCCAAANN 120
TGTTACACAAG TGAAGGCCTG TGGCACTCAG TGTCTGAGGT GGACGTGTTA ACCAGCTAAA 180
GACCGGGAAG TTCTATTAC TAACTTTTTT GCATGGAACA AGAAAATCTA TGAGGATATC 240
ACCAAATAA A 251

```

(2) INFORMATION FOR SEQ ID NO: 4693:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 97
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

(vii) IMMEDIATE SOURCE:

```

(B) CLONE: HUMGS05568

```

(ix) FEATURE:

```

(D) OTHER INFORMATION: "N"=unidentified base

```

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4693:

```

GATCCATCTT GCTTTTGCCT TATATAAAGA CTACAGTTAT GGAAGTNTGG AAAACTGTGG 60
CTTCTCAATA AATATTCAGA TGTCCTAAGA NTATAAA 97

```

(2) INFORMATION FOR SEQ ID NO: 4694:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 106
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

(vii) IMMEDIATE SOURCE:

```

(B) CLONE: HUMGS05570

```

(ix) FEATURE:

```

(D) OTHER INFORMATION: "N"=unidentified base

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4694:

```

GATCTCACAA AGTACAAAAC GAATGCCTTT CTTTCTTGT TTATAATGGT CACTCACTGT 60
GTTTGTTTAC TGTCAAGAAA TCAATAAATG TGTTTAACAA GTTAA 106

```

(2) INFORMATION FOR SEQ ID NO: 4695:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 106
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05571
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4695:
 GATCAGTNGA TATTAAGATG AGATTACAAA TTTTNTTAAG TTCAGCCATT ATTACTTTTG 60
 GTATCCCAGA ACATGACAAA TTATGAATAA AACAAGTATA CATAAA 106

(2) INFORMATION FOR SEQ ID NO: 4696:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 149
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05572
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4696:
 GATCCATAAA ATTTTATTAA TCAAGATATC ATATTAAAGT ATTATTATAT TAATTTATGA 60
 CACCAAATTT TTAAACCAAT TTTATGTTTT TCCTTATGTA TCATTATAAA CCCTATTGCA 120
 TTTTATAAGT AATANANTAT TTTNAGAAA 149

(2) INFORMATION FOR SEQ ID NO: 4697:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 356
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05573
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4697:
 GATCGCGACG GCTGGTTTGC ATCGCCAGCT TCTATATATT ACGGCCTTTT TTTTGTCTGG 60
 ATATTATCTT GTAAAACGTG AAGACTACCT GTATGCTGTG AGGGACCGTG AAATGTTTGG 120
 ATATATGAAA TTACATCCAG AGGATTTTCC TGANGAAGAT AAGAAAACAT ATGGTGAAAT 180
 TTTTGAAAAA TNCCATCCAA TACGTTGAAG TCTTCAAAT GCTTGCTCCA GTTTCCTGA 240
 TACCTGCTGT TTCTGAATTT GNTGGGGCAT GTTCTTATG GCANTTGGAG GCTNATTGNT 300
 AATNTGTATG TTGGCACCTT GTNATTAAAA TACGGGGCCA TGNNANAAAA AAAAAA 356

(2) INFORMATION FOR SEQ ID NO: 4698:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 190
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05574
 (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4698:

```
GATCCACCTG CTTTGGCCTC CCAAATGTTG TGTCTTTTAA AAGTATCTAC AGTAACCTTG 60
TATCAACTTA GTTTGTCAGT CTATTAATAC TAAATTTAGC TCCTTCAAAG CAGTTGGAAC 120
TATGTGCTAC ATAAATTTCA GTTTCACCCA AGGGAAGAAG TGAAATTAGT GAATAGACAG 180
TTACAGCAAA 190
```

(2) INFORMATION FOR SEQ ID NO: 4699:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 81
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05575

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4699:

```
GATCCGNTCC CAGACGGCCT TGGACTGCTT GCATTTCGCC GGAGAAAAAG GGGTTAATAA 60
ATGGGCCATC CTTTCCTGAA A 81
```

(2) INFORMATION FOR SEQ ID NO: 4700:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 89
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05576

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4700:

```
GATCACTGTG GGGTCAAGAA TGTCTTACAT GTTTTATTCA TCATTCTTGA NGGAAGAAAT 60
AATTCAAACC TTGGAATTAA AAAGTCAAA 89
```

(2) INFORMATION FOR SEQ ID NO: 4701:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 311
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05577

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4701:

```
GATCTTGGCA AGAAACCCTA ATCTCCCTCC AGAAACAGTG GACTCTCTAA AAAATATCCT 60
GACTTCTAAT AACATTGATG TNANGAAAAT GACGGTCACA GACCAGGTGA ACTGCCCCAA 120
GCTCTCGTAA CCAGGTTCTA CAGGGAGGCT GCNNNNACTC CATGTTACTT CTGCTTCGCT 180
TTCCCTACC CCACCCNCCG GCATAANGNC ANACCAATCA ACCACGACAA AGGNAGTTGA 240
CCTAAACATG TAACCATGCC CTACCCTGTT ACCTTGNTAG CTGCAAAGTA AACTTGTTNGC 300
TGNCCTGCAA A 311
```

(2) INFORMATION FOR SEQ ID NO: 4702:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 94
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05578
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4702:
 GATCTCTCTT GCACGGGCCT TGCCAAGGCC CAGGAGGGAC TTGGGCAGTA TGTTCATGTG 60
 GTCATATGTT TTTGTAAAAA ATTGTGAAAG TAAA 94

(2) INFORMATION FOR SEQ ID NO: 4703:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 248
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05579
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4703:
 GATCCGAATC CGACTGTGGG GGGCGGGCTG GGAGGTGGGA GCCGCGTCTC AGGCCCCGGCC 60
 GTTATCAAGG CCCCTCCGCC CCCGAACCTT GGGGAGCTGG ACCAGGAGGT GGAGGCTCAG 120
 GGGACCCCAT GGGGACAGGC AGAGCTGGTC TCCTCCAGC AGACGGAGCC AGGACGGGCA 180
 CAAGAGTCTT GGAGGTTTGC GTGTTTCTGC TAGAATTAAA AAGTTAAATT TAAAAATGAA 240
 AATGNAAA 248

(2) INFORMATION FOR SEQ ID NO: 4704:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 66
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05580
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4704:
 GATCAGCAAA GTGAGACAAA AGAAGATACT TCCCCAAAGA AGAAAAAGAA AAAATTGAGG 60
 CAGAAA 66

(2) INFORMATION FOR SEQ ID NO: 4705:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 65
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05581
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4705:
 GATCGGGTCT CGGAAGGAA GTAGCCATCA CACCATTAAA AAGCCTGTGG ACCTTTAAAG 60
 GNAAG 65

(2) INFORMATION FOR SEQ ID NO: 4706:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 308
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05582

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4706:

GATCTTCTTA GGACATCTTT TTTAAAAAGC TGTTTAGTAT CATTTTGTGT ATATTGTTGA 60
 AATGCTTTTT CATCAATAGC AGTCANCATT TTATCCTTTC TTTTATATT CATAATGTTA 120
 TTTAAGTGTC ATTGATGTAC TGTATTGACT TGGGGTTTGC TTATTTGTTA CTTAACATGT 180
 GTACATGCAT GAAAGCATTT TTNGTTGTTT CCTGATAGTT ACATTTC AAC CTTGGGATTT 240
 TNCCAAATNA CTTAAGANGT TTAATGTCAG TNAAAGATTT TTTTACCCTC NTTTTGGGAA 300
 CATCAATN 308

(2) INFORMATION FOR SEQ ID NO: 4707:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 323
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05583

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4707:

GATCCGGAAG ACCACGGCCA GCCAGGTGTA CGAGACATTG CTCACCTACA GTGACGTCGT 60
 GGGCGCGGAT GTGCTGGACG AGGTGGTGAC TGTGCTCAGT GACACTGCGT GGGACGCAGA 120
 GCTTGCACTG GTGAGAGAGC AGCGCAACCG TCTGTGTGAC CTTCTGGGCG TACCCAGGCC 180
 CCAGCTGGTG CCCAGCCTG GTGCNTGCTG AAGCCAGTCC TTGGAGCCCA TANTCAGGCC 240
 CTGCCTGGTG AGGATGTCTT GTTTCCTGAG GGTAGGCCGG TTGTGGAAAA GCCTCANNAC 300
 NAGTGNTGCC TNNAGGCTGN GAN 323

(2) INFORMATION FOR SEQ ID NO: 4708:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 302
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05585

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4708:

GATCTTCCTT TGGAACCAGG CACATTTGGC CCCTTCTCAG TGACTGCACT GTGGAACCTCT 60
 TCTTAAGAAA ATATTGAAAA CAGCTTAATG CTTTCATATA GTGACCGACA TTTAGTTGAA 120
 AACTACTGCT GCATAGCAAA TATTGTGACT CTTTCATGTGT CCACAGGAGC TCTTGTGTGG 180

GTTTAAAGCT ATGAAGTGTA TTCACATTGT GAAGTTTAA TTATCTTTAT TGAAATTAAT 240
 TGTGTAAAAA TGGTATGTGC TCTATTAGGT ATTCAGTTTG TATGTGAATT CTATAAAGAA 300
 TN 302

(2) INFORMATION FOR SEQ ID NO: 4709:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 302
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05586

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4709:

GATCCCTCTC AGCTACTGGG AGCTGCTTTG TGCCTTGGAA GCCTCAAGCT GAAATGGATG 60
 TCAGCCTCAA GTTTAACTCC AAGAGGGTTC ACCTTGTTTC TTTGAACAAA ATGTGCTGCC 120
 TGTGCTTCC CTTTGCCAGG AGTGGTGTTT CCTTTTCCAC AGGTCTGGAC CACAGTGTCT 180
 CTAGCTCCCG CTCCTGGATA CTTGGTTACT GTGTGTTTCG GGAAAAAAGG ATNCACAACA 240
 TGAATATNCA CTAAGCTGTA ACAGGGGCCT GCTGCANCTA TAGTATTTCC TGAAAAAGTA 300
 TN 302

(2) INFORMATION FOR SEQ ID NO: 4710:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 161
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05587

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4710:

GATCTTGCCT CTTTCCTCCT TCATGAAAGC AGCACACATT GTGTAACTT ATGTCTCTTG 60
 TTAAATNAGC TTAATGTCTT TGTGTTTTGT CCAAACTGT ATTGNMNNAA TATTGTTTAA 120
 TGCAAATNAA GGAATGCAAT AAAGAGTAAA TATACTTGAA A 161

(2) INFORMATION FOR SEQ ID NO: 4711:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 120
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05588

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4711:

GATCAGAGCG TGGGAGGAGG TGGGGGTGGA CGTCCATCCG GTGAACAGTG AAGGCGTTTG 60
 TGAGGTCTTT CTGGTCCCAG CATGAAATAA AGCCTTGGCC TGGGGGCCGC TTCATTCAAA 120

(2) INFORMATION FOR SEQ ID NO: 4712:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 297

(B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05589
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4712:
 GATCTGGCAG TACCCAGCCC TTGTGTGTGT GCGTTANTCA GCACCTGCCC AACTGCGAG 60
 CCCCCGTAGG ATGTGCCTTG TCCTTCCCTG TTTCAGCACT TAACACACTA CCTGGTACAG 120
 AGTATGTAGT GGGCATCTGT TGAATGAATG CTTTTCCCAG TAGCAGTGTA TTCATACAAT 180
 ATTAATATAA TTGTCCCCTG GCTTACAGAT ANAAATGAAA GCATCAAGTG CCCAGTTGAG 240
 TGAGACCCAG GTGTTCTTCC TNCACCCCTT AGTGGTTCCC CTGGGGGCAG NTCTTTN 297

(2) INFORMATION FOR SEQ ID NO: 4713:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 67
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05590
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4713:
 GATCTCTGCG CTAGGTCGTT TACCGCTATT TATTTTATG GGGAAAATAA AACTCTCAA 60
 AATGAAA 67

(2) INFORMATION FOR SEQ ID NO: 4714:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 50
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05591
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4714:
 GATCACTAGA TGATTCTAAC ATCGAAATAA ACCTCTTTT ATATGGCAA 50

(2) INFORMATION FOR SEQ ID NO: 4715:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 233
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05593
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4715:
 GATCTGGTGC GTGTGGCCCT GTGGGAGTCC ACTTTCCTCT CTCTCTCTCT CTCTGTNCCA 60
 AGTGTGTGTG CAATGTTCCG TTCATCTGAG GAGTCCAAAA TATCGAGTGA ATTCAAAATC 120

ATTTTNTTT TCCTCCTTNT CAATGTGATG GAATGAACAA AAAGGAAAAA ATTCAAAAAA 180
 CCCAGTTTGT TTTAAAAATA AATAAATANA GCAAATGTGC CANTTAGCGT AAA 233

(2) INFORMATION FOR SEQ ID NO: 4716:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 282
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05595

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4716:

GATCTTGCTT TGAGGAAGAC CCAGGCCATG TTCCCAAAGG NCAGCGGGGG CCCTGGATTG 60
 TAATGCAGCC TCGGGACAGG GCTGAGGCCT GCGGGGGAAG ACCTATACCC CACGACTGGG 120
 CCTGGNTTCA CCTCACCTA ATCCCCCGGG AGGAGCTGAC TGATGCAAAA AGCTGAGGNN 180
 GCCTGCTGGG NNGTGGCTGT TTTNATGNCC CAGCCCCGNN AAGTTGGGGA GTGTTTGTGG 240
 GGGTNCAGAG CCCTNCCCCA GNCAGGAGAG AACCTTCCTN TN 282

(2) INFORMATION FOR SEQ ID NO: 4717:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 80
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05598

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4717:

GATCTAGGAC TAATTCAAGG GTCTAGATTT ACCTCCAAAC TTTGTTTATC TACAAAAAAT 60
 AAAACTCTAT CTTCTTTAAA 80

(2) INFORMATION FOR SEQ ID NO: 4718:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 204
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05599

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4718:

GATCCTTCCC CTCTCAGACA CCCCTCTTTC AGCTTAGAAT TTGGGGAACC TATAGAGAAG 60
 TCACAGAATC CCATGAAAGG GAATGGGGCA GGAGCCAGGG GTGTTTTTNC CCAGTGCAGG 120
 GTTGTGTCTT TGTGTCTCTG TCTCTGTGAC TGTAATCCT GCCCTGCCCC ACTCCCAATA 180
 AAAGCTTTGG TGTATAGGCT CAAA 204

(2) INFORMATION FOR SEQ ID NO: 4719:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 83
 (B) TYPE: nucleic acid

(C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05600
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4719:
 GATCAGTTTG TTTCTTTCTG TGCTGGTAAC AATAAGCGTC GCACAGACAT GGTTCAGGT 60
 AANTAAATCT ATTCTATGAT AAA 83

(2) INFORMATION FOR SEQ ID NO: 4720:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 289
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05601
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4720:
 GATCTCTGGA TTGTGTTATG TCAGTGTTGG TAGGTTAGGA ACTAGATTTC CCAGAATCCA 60
 TTCCATTTGT NATTCATGA TACAATTGAC CAGTAACCTA TCTTACATGA GATTCGGAAG 120
 TAAGTTAAGA AGGCATTAGT CATGGTTTGG AAGCACCATA CAGGGAGACA GCTGTGTGAA 180
 TACAGGCTGT ATGGACACTT GCTTCCATCC CATTNNCTG CTTCTTTGGG TTGCCAATCA 240
 AGTGTATCCT CAAAACGACT TGACTTTAAT TTTCTCGGAG GTGATAGTN 289

(2) INFORMATION FOR SEQ ID NO: 4721:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 235
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05602
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4721:
 GATCAAGTCT TACATGCCCA TTCAGTTTCT AGGCCCCCCT CACCTCCCTG CCCTCATTCA 60
 CAAGTGGCCC TGAGACACGT GAACACCTCC CTNCTATGCA TCACAAACCT TCTCCACCGA 120
 GCTTTGGTGC TTTNGCCTCT GGNACACCTA ACTAGCATTG GCAGAGGAGA GTCTACACTC 180
 TNTNCTNAT TCAGGGTNGA TGCTTTAAGA AATNCTGNCT CTTGTGNANG CAGAN 235

(2) INFORMATION FOR SEQ ID NO: 4722:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 276
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05603
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4722:

GATCGTCAGC ATCATCGGAG GCATCAGTTC CTTCTTCATC TTCATCTTCC CAGGTTTGTG 60
 CCTCATCTGT GCAATGGGTG TCGAGCCTAT AGGACCAAGA GTCAAGTGCT GCCTGGAGGT 120
 CTGGGGAGTG GTCTCTGTGC TGGTCGGCAC CTTNATCTTT GGGCAGAGCA CGGCGGCAGG 180
 GTCTGGGAGA TGTCTGTATG GGCAGCCAGT GCCGGGCAGG AAGGGGCCCT CCGGGGGCTG 240
 ACCCTACGTG GCTGCTGTAT GCAGNNGGGA GANCAN 276

(2) INFORMATION FOR SEQ ID NO: 4723:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 278
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05604

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4723:

GATCAAGGTC ATAGAAAGTG AAGATTATGG CCAACAGTTA GAAATCGTAT GTCTGATTGA 60
 CCCGGGCTGC TTCCGAGAAA TTGATGAGCT AATAAAAAAG GAACTAAAG GCAAAGGTTT 120
 TTTGGAAGTA CTCAATCTGA AAGATGTAGA AGAAGGAGAT GAGAAATTG AATGACACCC 180
 ATCAATCTCT TCACCTCTAA AACACTAAAG TGTTCGGTT TCCGACGGCA CTGTTTCATG 240
 TCTGTGGTCT GCCAAATACT TGCTTAANCT ATTTGGAN 278

(2) INFORMATION FOR SEQ ID NO: 4724:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 280
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05606

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4724:

GATCTGGAAT GCNACCGGAG CACTTGCTCT GAGGAATCCC AGGGTGACTC TGTCGGGGAA 60
 GAATCCGGTC ACAGCCTCCC CTCAGAGACA GGCCTCANTT CGAGGGCAGC CCATTATCTG 120
 TCGCAGCATC TGCCATGTCC CTNAGACTGC GGGAGGCAGG GNATGCATGG GTGTCCCCAT 180
 CTGTCCCTGG TGAGAAGCAA GGCTAGCTCT GCCTTCCACA TGCTTNTNAG GATGCCAAGA 240
 GGCCTAGGAA CCCAGNAACC CCCTTGNGAG GAGCTGTGNN 280

(2) INFORMATION FOR SEQ ID NO: 4725:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 253
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05607

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4725:

GATCTGCATT CACCTTAGGG CTTAGCCTCT NATTTTATGA ATTTTCAGGC TGTGATTNGT 60
 GTTGGATGGC TAAGNTCTAA GATAATGCAA ATAGCCCCAA TCTTTAAATA TAGCGGTGCT 120
 AAGTTGAACA NGTAACACAN TACAGAAAAT GCTGATATGA ATACTTAGTA ATAATACAAA 180

AGTTCCTGCT AAATTATATA TGTGTATCAC TGCCTGNCNN GANACCCAC TTNNCTTTTC 240
 TAATCCAGCN CAN 253

(2) INFORMATION FOR SEQ ID NO: 4726:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 301
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05608

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4726:

GATCCAGATA GCCTAGGGTG AGGGTGACAG AGGGACAGTG GGCTATGCCA CTAGGCCCTG 60
 GTCTGGCTTT GGAAAGACCT NTGAGGGGAA ACCTTCACCC AGCACCCATG CCCCCTCTG 120
 CTGAGGCCAG AGGAAGGGAG GCCTGAGGGG CAGATTNGTT CATGCCTGGG GTGGAGGCTA 180
 AGCCTGGACA CAGTCAGGGC GGGGCTGGCC AGCTGTGCGA GAACACAAGC CACGCCTGCN 240
 ATGGTGCTGC ACCCCTGGGT GTCCCTGCCT TGGCCCTGCT CTGGTCACTT CAAACATNGT 300
 N 301

(2) INFORMATION FOR SEQ ID NO: 4727:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 295
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05610

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4727:

GATCATAAAA CAATAAAGT AGTTTTCTAA TGTTGCTCAT AAAGTGGGAC TGAAAATCAT 60
 TTCAAATCCA GGAGACAGTC CAAAATGGT TATTGAGCAN TGGCCACATA TTGGAATAAA 120
 AATTTTNATT TTCAGTCTGT GTTTTGGGAA AACAGCATTT CATTGCATAG GTGGATAAGT 180
 NCTAGAATAT TGGCTAANCA TATNGTCATT TGCTATAATG CATATGCATT NCAGAAAGTT 240
 TCTNGCTCCT GANGTATNAT GGGGGGTTTT CTAGCTCCCN TATNGCNAAA ANTTN 295

(2) INFORMATION FOR SEQ ID NO: 4728:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 99
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05612

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4728:

GATCACTTGA GCCAGAGGTT AAGTCTGCAG TGAGCTGTGN TTGTACCACT GCTCTCCAGC 60
 ATGNGCAACA GAGCCGGACC CTGTCTCACC AAAGNCAAA 99

(2) INFORMATION FOR SEQ ID NO: 4729:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 329
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05613
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4729:
 GATCCATTGT CGGGAGCTTG TGGCACATCA CCTTCTACT CTGCAGTCTT CCCTGCCTCT 60
 NAATTCCGTT TATGTCTACC GTCCCCTCAA GCACACCCTG GTGACCTGTG ACAAAGGAGT 120
 GTTCAGATTA CATCCCTCCT CTGTCCCAGG CCCAGACTTC TCCAAGGACA ACAGCAAGCC 180
 AGAAGTGCCA GTCAGAGGTT NAGTAGCCTT TTACCATCAT CTCCCAGNTG CCAGTGGGTG 240
 CAAGCAGACC TCTACTAAAC GNAAAGTAGA GGGAAATGGN AGTGGATGAC TTNTGTGATG 300
 GANTCAAACG GCTCTATAAT GGANGGTTN 329

(2) INFORMATION FOR SEQ ID NO: 4730:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 140
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05614
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4730:
 GATCCTGCCC TTTCTGGGT NGGTGGGNGG TATAAGCACT GCCACCAGAA CTGTTGGGTG 60
 CTAGCTTCAA AGCCCAACAC AAGAAATACT ACCAATTATG AAATTACAAC AACAANTNTA 120
 AATGACATAA TTTTTTGAAA 140

(2) INFORMATION FOR SEQ ID NO: 4731:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 190
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05615
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4731:
 GATCCATAGG ACTACCGCAG CCCGGACTCA CCAACTTGCC ACATGTTCTA GGTTTCAGCA 60
 ACAAGACTGC CAGGTGGTTG GGTTCTGCCT TTAGCCTGGA CCAAAGGGAA GTGAGGCCCA 120
 AGGAGCTTAC CCAAGCTGTG GCAGCCGTCC CAGGCCACCC CCATGGAAGC AATAAGCTC 180
 TTCCCTGAAA 190

(2) INFORMATION FOR SEQ ID NO: 4732:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 159
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05616

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4732:

```
GATCCCAGCC AGGAAGGCTG GGGGCCCTAC TGTTTGTCCC CTCTGGGCTG GGGTGGGGGN 60
AGGGAGGAGG TTCCGTCAGC AGCTGGCAGT AGCCCTCCTC TCTGGCTGCC CCACTGGCCA 120
CATCTCTGGC CTGCTAGATT AAAGCTGTAA AGACATAAA 159
```

(2) INFORMATION FOR SEQ ID NO: 4733:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 295
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05618

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4733:

```
GATCACAGAC AAGCTGGGCC TGCATTCCCT TCGTCACCGT AACTGGTACA TTCAGGCCAN 60
CTGTGCCACC AGCGGGGACG GGCTGTACGA AGGCCTGGAC TGGCTGGCCA ATCAGCTCAA 120
AAACAAGAAG TGAAAGCCAG ACAGCCCTAA CAAAGCACCC CACCCACCCC TGACATACCT 180
ACTGTNACCC TGCCCCAGTC CTACCCCTTC CTCTCCATGC AAGTNTGGCC AGGGCCCTGG 240
GTATCATGTC CACATGCCCA GCAAGAGCCT TGCCTNCCNT TGCCTGCNCT GCTTN 295
```

(2) INFORMATION FOR SEQ ID NO: 4734:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 295
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05619

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4734:

```
GATCCACCCA CCTNGGCCTC CCAAAGTGCT AGTATTATGG GCGTGAACCA CCATGCCCAG 60
CCGAAAAGCT TTTGAGGGGC TGACTTCAAT CCATGTAGGA AAGTAAAATG GAAGGAAATT 120
GGGTGCATTT CTAGGACTTT NCTAACATAT GTCTATAATA TAGTGTTTAG GTTCTTTTTT 180
TTTTCAGGAN TNCATTTGGA AATTCAAANC ANTTGGCAAN CTTNGTATTA ATGTGTTAGG 240
TGCAGGNGGN CATTGGTATT CTGGGCACCT TCCTAATATG GCTTTACAAT CTNNN 295
```

(2) INFORMATION FOR SEQ ID NO: 4735:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 259
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05621

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4735:

```
GATCTCAGCA ACAGCTGGGT AATAAGACTA GCATAGCTCA AACTATCCTG CCAAACGCTC 60
```

TCATCTGATT TTNCCTCCCT TCTCCCCCAA CCTCCAATCA CCCTGAGTCA CCTGTAAATN 120
 CATTGTGNAT TCAAAGCGGA ATAACANGTT GTCCCTAGCA NNNCCGCTGA GCGCTTTATA 180
 ATTTTNTGGT GTATTTTGT NAGTAGGTAG CAGAGGCGGA NGTATTTTN GGTGTAATTC 240
 TTGANATTTT CTGACAGGN 259

(2) INFORMATION FOR SEQ ID NO: 4736:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 232
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05622

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4736:

GATCACTGCA TGTTATGATG GCTTGTAAGT GCGTTGTAA GACTTTTNTT TCAGTGTTTG 60
 TNTCCAGTA TTTGAACCTA ATTTAAAGAA AAAGACGTTT CCAAGTTGTA TTTATTAAAT 120
 GTNTTTTNC TACCTTTTG TNCTGCTACT TTNCTAATCT CATTAGCTTA GCTGTGTTTG 180
 TNCATAGGTT ATATNTGGTA ATAAATNTAT AGAGTGTTNG TTGTCATCGA AA 232

(2) INFORMATION FOR SEQ ID NO: 4737:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 138
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05623

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4737:

GATCTGTAAG TTTATTTGCT CAATGTACGA CAGCTACATA ATGACTCACA TTCATGATAT 60
 TCCATCACTG AGGAACTGC TAAAGATGGT CCGTGTGTGA AATAATTCCT TAGAGAAACA 120
 CGGAGCTGGA AAAATAAA 138

(2) INFORMATION FOR SEQ ID NO: 4738:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 135
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05624

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4738:

GATCCAAC TGACAACGTGT GGGATGGACC TGGAAACAAG CACCTCCCCA AACACATCAC 60
 CACTCCCTAG GCGGGGCCT GTGCATGCTC TCGCATGACA TCTCCATGCT GGTTCCTGCA 120
 TAGCATAAAT GGAAA 135

(2) INFORMATION FOR SEQ ID NO: 4739:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 64

(B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05625
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4739:
 GATCGATGTT AAACGTCACA GCAGTACTTT GCTCAATAAA GGTCATATTG GAAACATAGT 60
 CAAA 64

(2) INFORMATION FOR SEQ ID NO: 4740:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 117
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05627
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4740:
 GATCTGTGGT AGGGTATTGA GGGATGAGGG AGAAAAACGA CCTAATTCAN GTAGGACTNG 60
 CAACGGCTCC CACCCTCCCT GGGGACANGG NTTAATAAAA ATTGACATCA CAAGAAA 117

(2) INFORMATION FOR SEQ ID NO: 4741:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 244
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05628
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4741:
 GATCAGAAGG GCTGCGTGTA GCACCCTTAT GGTCTTGCAG AACACACCAA GAAACCCGAC 60
 GGCTTCCATA TTTNCTGACC CTACAAACAG GTGCCTAATA CTGATGTGGA GAAAGCTCAA 120
 GAGGGAATCA TCTGGCCTGA GCCTACCATG AGGCTGTTTG TGGTNCTGGC AGAAAAGCAA 180
 CAACTCGCTC CCCTTCCCAT GTATCAGTGA AAACCATTAT GCAAATAAAG AGCTGGGCCC 240
 CAAA 244

(2) INFORMATION FOR SEQ ID NO: 4742:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 209
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05629
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4742:
 GATCTTTTTT CCTCCTTCTG TTTATNTTTT TGTTTGTTTT ATTTATAGTC TGATTATAAA 60

CAATCAGATT CAAGTTGGTT AATTTTAGTT ATGTAACAAC CTGACATGAT GGNGGAAAAC 120
 AACCTTTAAA GGGATTGTNT CTATGGTTTG ATTCACCTAG AAATTTTATT TNCTTATAAC 180
 TTAAGTGCAA TNGAANGNGT TTTTNCAAA 209

(2) INFORMATION FOR SEQ ID NO: 4743:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 265
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05630

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4743:

GATCATATAC TGTATATATA AAANNNTTGA GATGGTAGAA ACATGTATGA NTGTACTAAG 60
 TAGTATTCCA CTGTACTCAT TCATAAGGTA GGTTTTCTTA CAAAACTCAC ACCAGGTACT 120
 TAAAGATGTG CTCTGCTTTT TTCCAACAC GGAGTGTAC TGCTTTCTAG GTCAGTCCCT 180
 GCAGACTCTT CTCAACTCTT TCCCTATAGG AAACCTACTC CGCGTCCTGC CCCCACCTCC 240
 TAAATAAATA ANGGAATCGG CGAAA 265

(2) INFORMATION FOR SEQ ID NO: 4744:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 177
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05631

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4744:

GATCCCTAAC ATACTGTACT ACTTGCTTNT ACAATGTGTT AGCAGAAACC AGTGGGTTAT 60
 AATGTAGAAT GATGTGCTTT CTGCCAAGT GGTAAATCAT CTNGGTTTGC TATGTTAAAA 120
 CTGTAAATAC AACAGAACAT TAATAAATAT CTCTGGTGTA GCACCTTTTA CTGTAAA 177

(2) INFORMATION FOR SEQ ID NO: 4745:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 377
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05632

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4745:

GATCAGCCGA AGAAAGCAGA AGCTCTGGAG GCTGCCATCG AGAACCTCAA TNAAGCCAAG 60
 AACTATTTTG CAAAGNTTGA CTGCAAGAG CGCATCAGGG NCGTCGTTTA CTTCCAGGCC 120
 AGACTCTACC ATACCCTGGG GAAGACCCAG GAGAGGAACC GGTGTGCGAT GCTCTTCCGG 180
 CAGCTGCATC AGGAGCTGCC CTCTCATGGG GTACCCTTGA TAAACCATCT CTAGAGAGGA 240
 CATCCCTGCT GGGCTGCTGT GCAGAGTATA AGATTTTGA CTTGTTTCATG TCCCCTCTCT 300
 CCCTATAAGG GGTGTATTG TGACACCCTA TCTNGTCANT AAACAGCATT TCTGATTAAA 360
 AANAANAAAA AAANAAN 377

(2) INFORMATION FOR SEQ ID NO: 4746:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 89
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05634

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4746:

GATCCTGAAG TTTTGGTCA ATAGGCTCTG TCTTCGTGAG AGACGGGCTG AGAGTCAGAA 60
ATAAATCAAC CATTNTGGT TTATTCAAA 89

(2) INFORMATION FOR SEQ ID NO: 4747:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 55
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05635

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4747:

GATCTTTCTT CTCCAGCTA AGAGTTCTTC AATAAATTA AGAAATACCT GGAAA 55

(2) INFORMATION FOR SEQ ID NO: 4748:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 244
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05636

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4748:

GATCAGCAGG GACCAAACCA TTGCCACATC CCAAGGNTGA ACAAGCATGG CTGAGCACCA 60
GAGTNTGCAC CAAGTNTGAN TTTAGGCCTG CCAAGTGGAT TTACACCCAG CACGTCCCAA 120
ATTTGGGTGA GTGCATGCCA ACCCTGTAAA CATGTAGGGG TGGACAGGTC AACAGACAAG 180
GTGACCCAG CNTCCCGGCA AACTTGATTA ACACATACTG GNCACAGCAA TTANNNGAN 240
NTGN 244

(2) INFORMATION FOR SEQ ID NO: 4749:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 184
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05637

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4749:

```
GATCGCAGGG CCNTAGGTGC CTGGACCCAG GGTGTGCCAG CCCGTCTCTN TGCAGTCCCT 60
GGAAGGGCGC TGAGAAAGGC ACCAGCTCCT TGGACCCAC CTCCATGCT CTCACTCTCA 120
TCCCCGTTCT CTTGTCCACA CAGCTCTTCC AATAAAGGTG TTTCTNTTCC TCCTTCTCCT 180
CAAA 184
```

(2) INFORMATION FOR SEQ ID NO: 4750:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 282
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05639

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4750:

```
GATCCTAGTT GCCTTTGTGT ATATTTACTG CCTGCTTGAG TGTTTCTATG TGTGGGTTTT 60
CCCTGTATCT TGTAGAAATG TTGGGGTGTT TTCCTCTGCC ATATGGCTCG TGGCCTGCGA 120
GCCAACTATT TCAGNTGTGT TTNACCTTCA TTTTGTATGA GGTGATTAA ANNTNGTTTC 180
ACTTTGTGTA GTGAATTCCA CAGTAGTTTT CTGANTGTNG TTAAAAATGA CTTAACATAT 240
TACACAGATA TTCAATAAAA ANGTTTTATT TCCTGTTGNA AA 282
```

(2) INFORMATION FOR SEQ ID NO: 4751:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 65
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05640

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4751:

```
GATCCCATTTG TGTATAAGTT AATATGTGAT AACTATTGAA TCTTGACAA AAACAAAAAT 60
TGAAA 65
```

(2) INFORMATION FOR SEQ ID NO: 4752:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 159
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05642

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4752:

```
GATCCATCCG CGGTGTTGCC TGAATCAACC GTCATCCCT CGGATTGCTG AGCAGGATTC 60
ACAGGGTGGA GGCACCACAA TGTATCTGTG TCCCCAGAAA GAATACTTGC AGTTTCCAGT 120
TGGACACTTT ATCAATAAAA TCACTATAAA CATCTGAAA 159
```

(2) INFORMATION FOR SEQ ID NO: 4753:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 352
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05643

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4753:

```
GATCTTGAGT TGCAGTCCAC AGCATTACACA TTCTCAGGAT AAACATGCTT GTCTCCATAT 60
ATACTATCTG TGCCTGTAAT GAATGAAAAA TCCATCCACT CTGCTGCCAT TCACAGCCTA 120
ATCTTCTGGA GTAGTCCAAA CAATGTTTGG AAAAACATGG GACTGTATGT CATTACTATG 180
ACTGATAGCA GAATAATAAT GCATCTNACT TCTATATAGN GATAGNCTTA CATAGGTTAC 240
CCTTGANATT CATTAGTNTG TCATANGTTT TAGGAAAGGT AGGACCCGNN AAGNNGTTCT 300
ANTTAGTTGT CTAAATNTTT TNCAGTGNGC CAAGNNATTC ACCATGANAN AN 352
```

(2) INFORMATION FOR SEQ ID NO: 4754:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 297
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05644

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4754:

```
GATCGGCTCA AAGCCTGTCA GCAGAGGGAA GGACAGAACT ACCAGCAGAA CTGTATCAAG 60
GAAGTGGAGC AGTTCACCCA GGTGGCCAAG GCCTACCAGG ACCGCTATCA GGACCTGGGG 120
GCCTACAGTT CTGCCAGGAA GTGCCTGGCC AAACAGAGGC AGAGGATGCT GCAAGAGAGA 180
AAAGCTGCAA AAGAGGCCGN CGCTGCCACC TNCTGAGGCA GCTGTGGGTG CCCCTGCTGT 240
TGCGCTCTGT ATNACTTGTT TGCTTGAAAT NTAAAGGCC TNGCAAACCC TGGGAAA 297
```

(2) INFORMATION FOR SEQ ID NO: 4755:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 126
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05645

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4755:

```
GATCCCAGGC CTGTGGCTAG CAGCACTGGG GACAGGAATG GCTGGTCCCT TGAGGAGGTC 60
GTGACAGGCT CAGCCTNGTN GTCTNGAGGG GACTCGGAAA TAAATTGTAG CAGCTTTCCT 120
GCCAAA 126
```

(2) INFORMATION FOR SEQ ID NO: 4756:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 317
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single

(D) TOPOLOGY: linear
(vii) IMMEDIATE SOURCE:
(B) CLONE: HUMGS05646
(ix) FEATURE:
(D) OTHER INFORMATION: "N"=unidentified base
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4756:
GATCTAAAAA GTCAAAAATC TGAAATTTAA TAATATGAGA CTTACACTGA NTATAATGTT 60
CATTTAGAAG TTGCTGTGGT CCACTTCATT TATANGGAAC AAATATTTTT ACAGTACACT 120
ATAGCAACAG CAAAAGCCCT CTCTCACCCCT GATAGGAATG GGTTCGCTGG GTGTCTAGAA 180
GTTAGATTCC TGCTGAATAG ANTTAGCCAT CCTTAAAAGA TTTAATCCA ATACTGAACT 240
GGTTTATAAA ANGCTTTCTC TATTGTANTG NACTGTAAGT AGTGAAATTC TGTATATACT 300
GCTATTNGCT GNCTGTN 317

(2) INFORMATION FOR SEQ ID NO: 4757:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 228
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear
(vii) IMMEDIATE SOURCE:
(B) CLONE: HUMGS05647
(ix) FEATURE:
(D) OTHER INFORMATION: "N"=unidentified base
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4757:
GATCAGTAAT CCTATTAAAG AAGCGGAAGA AGATACCTCA GAAAGGTCGG AAGAAAAAAG 60
GTTTTCGGAG GCGGCGGTGA TTATGGGTGT ACATATTTGT ATATTTTTTG TCATCCTGAG 120
ATACTTCTAA TTTCATTGTA TATAGGTGGT TTTCCCTGGA ATTCATTAAT TGTTTGCTTT 180
GGACATGTGG AAAGAGCCTT ACTAATAAAA TTGATTTTAC TTATGAAA 228

(2) INFORMATION FOR SEQ ID NO: 4758:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 312
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear
(vii) IMMEDIATE SOURCE:
(B) CLONE: HUMGS05648
(ix) FEATURE:
(D) OTHER INFORMATION: "N"=unidentified base
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4758:
GATCAGTTCT GAAACAGTTT CTTTCTGAAA CAGAGAAAAT GTCCCCTGAA GACAGAGCAA 60
AATGCTTTGA AAAGAATGAG GCCATACAGG CAGCCCATGA TGCCGTGGCA CAGGAAGGCC 120
AATGTCGGGT AGATGACAAG GTGAATTTCC ATTTTATTCT GTTTAACAAC GTGGATGGCC 180
ACCTCTATGA ACTTGATGGA CGAATGCCTT TTCCGGTGAA CCATGGCGCC AGTTCAGAGG 240
ACACCCTGCT GAAGGACGCT GCCAAGGTCT GCAGAGAATT CACCGAGCGT GAGCAAGGAG 300
AAGTCCGCTT TN 312

(2) INFORMATION FOR SEQ ID NO: 4759:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 95
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear
(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05649
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4759:
 GATCAAGGTA AGAAACATTG TAAAAAATAA TTACAAAAGT GCTATTTGTT TCCTAAAAAC 60
 AGTGATTCTT ATTAAAAAGG TGTCAGANCT GGAAA 95

(2) INFORMATION FOR SEQ ID NO: 4760:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 336
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05650
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4760:
 GATCCTNTTT CCANTTNAAA GGAAGTGTA GCTTTTATCT TTTAACCAAC TGAACAATAC 60
 ACCAAAAGCA GCCTAGGGAT GAGCATTTCT TTGAAAGCAA TTAGGTTATT CACCTGGTAT 120
 TAAAACTATT TACTGTTAAA AAATCTGTGA CTTTATGAAG TTGATTNTA AAGGCAGCAT 180
 CANAACTGA NANGGAAGGG AAANANTAGG CAGCTTCTCT GCACTTGTTT GGAGCTCCCC 240
 AAANCAGGGT GCCATGGGGN AGTGGGCATC AAGNCCGGGC TGCCCTTTCG NGGTCANCCT 300
 GTGGCAGTTC AGAGTCANGG TTTTCTCTNC GCTGGN 336

(2) INFORMATION FOR SEQ ID NO: 4761:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 310
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05651
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4761:
 GATCCAAATT CCCAGGTCGG CGCCTGCATC GTGAATTCAG AAAACAAGAT TGTCGGGATT 60
 GGGTACAATG GGATGCCAAA TGGGTGCAGT GATGACGTGT TGCCTTGGAG AAGGACAGCA 120
 GAGAATAAGC TGGACACCAA ATACCCGTAC GTGTGCCATG CGGAGCTGAA TGCCATCATG 180
 AACAAAAATT CGACCGATGT GAAAGGCTGT AGTATGTATG TTGCCTTGTT CCCTTGTAAT 240
 GAATGCGCTA AGCTCATCAT CCAGGCAGGT ATAAAAGAAG TGATTTTCAT GTCTNGATAA 300
 ATACCATNTN 310

(2) INFORMATION FOR SEQ ID NO: 4762:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 364
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05652
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4762:

GATCCCCTCC AAGGAGCACC CATATNACGC CGCCAAGGAC TCCATCCTGC GCAGGGCCAG 60
 GGGCATGTTT ACTGCGGAAG ACCTGCGCTA GGGGACTCCT CATAGCCCTC AGCCCTTCCC 120
 TCGTTTCCAG GCCTCTCCCC AGGCTTGCCA TCAGCCTTCT TTACTIONTTG AGCCTCTGAT 180
 TTCCAATTCC CTGCTNCNNN CCACTCCATT AAGAGGCTAG GTGAGGCGCT TCTAGGTTGC 240
 TGGGGCTCTG CTGGTTAAGG AACAGGAAGC CTGACCATCT CCCTCCACTA CCTCTTCCCT 300
 GTGCTGTTAC ACAGTGTGAT TGTGATGTT AAATTAAAGT CATATTCTTG CTTCTTCCG 360
 NAÀÀ 364

(2) INFORMATION FOR SEQ ID NO: 4763:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 333
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05653

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4763:

GATCGTCTGG AAGCAGCAGA GATGTACAGA AAAGCTGCTT GGGAAGCGTA TTTGAGTAGA 60
 CTTGGTGTTT GAGTGCTTCA GATACATTTT TCAGATACAA TNTGAAGACA TTGAAGATAT 120
 GTGGTCCTCC TGAAAGTCAC TGGCTGGAAA TAATCCAATN ATTCCTGCTT GGATTCTTCC 180
 ACAGGGCCTG TGTAAGAATG GGTTCTGGAG TTCTCATGGG NCTTTTAGGA AATATTGAGT 240
 AATTTGGTAA NTCACCGNAT TGGTTACTAT ANATAAGGTC CCANTNCNTT AAGGCTTGAT 300
 AAGGTGAATN GNGGTGNGNN NTNTGGGGGG AGN 333

(2) INFORMATION FOR SEQ ID NO: 4764:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 131
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05654

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4764:

GATCCTCCAA AATTCAAACA AGGAAAAATC TCTCCCAATC TCTCCTTTCC TCCATCCCTT 60
 TTCTTTACTT CTCATCCCAT ATATAATATT ATATAANGCA TACGTAATAA AAGACATTCA 120
 CTATTATTAA A 131

(2) INFORMATION FOR SEQ ID NO: 4765:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 271
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05655

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4765:

GATCTCTTTT GCTATGGCTC ACATTATTTT CATAAAGTTG CTGGCCAGCT TTTACCTCTT 60
 GCATATAATC TGTGAAGAG GAATCTGTTT GCAGAAATTA TTGAGGAGCA TCTGGCAAAC 120

AGAAGTCAAG AGAACATAGA CCAACTTGCT GCATGAGTAA GGTGGCTTTG NTTGGTGTAC 180
 AGTATTTCAA AGGACTAGTA TTAANCTTGT GATTNNGGTT TTGTTTTTAA GGGGTACANN 240
 NNGTAAGCCA TTTNCTTAAN AACCGTTGAA A 271

(2) INFORMATION FOR SEQ ID NO: 4766:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 87
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05656

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4766:

GATCTTTCTC TTGAGTCATT TTATTTTAT CATGGACTAG TCGTGCTCC GTGTCCACCC 60
 CAATAAAGG GTCTTTCCTA CTTGAAA 87

(2) INFORMATION FOR SEQ ID NO: 4767:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 293
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05657

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4767:

GATCTGGGCA ATTTTGGCCT TGACTCTTTC CTGGCTCCAG AGCTCAAGCT TAGANGCCAG 60
 CCCTGCTATT TCCAGCCTCC TGAAGGCTCA GCACGGTGAG GCCTGACATC CTGGGGAAGG 120
 GCAACAGGGA GACCTACAGG ATGNTGGCTG CTTGCAGACT GGTCAATGGG GGATGACGGT 180
 GGGGAGGTTG NCAGATGTGA GACTTNGTA GCATTNGTA CACATGGCCC TGTAAGTTGTC 240
 CTTTNGAAGA ACATCANTNA AAATATANGG GTNNTTAAAT TNTGGGNAAA AAN 293

(2) INFORMATION FOR SEQ ID NO: 4768:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 313
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05658

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4768:

GATCTTGCTA GGAAGGCCA CCTGTATGC CGTGCTGGTC AGTGCCCTCG TGCTGATGGC 60
 CATGGTCAAG AGAAAGGATT CCAGAGGCTA GCTCCAAAAC CATCCAGGT CATTCTTCAT 120
 CCTCACCCAG GATTCTCCTG TACCTGCTCC CAATCTGTGT TCCTAAAAGT GATTCTNACT 180
 CTGCTTCTCA TCTCCTACTT ACATGAATAC TTNTNTCNGT TTTTNTGTTT CCCTGAAGAT 240
 TGAGCTCCCA ACCCCCAAGT ACGAAATAGG CTAAACCAAT AAAAAANTGT GTGGTTGGGG 300
 CCTGGGGNGC AAA 313

(2) INFORMATION FOR SEQ ID NO: 4769:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 279
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05659
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4769:

```
GATCCCCTCA TCACCCCTGT GCCCACTTCG GAGAACCNT TCCGGGAGAA GAAGTTCTTC 60
TGTGCTCTCC TCTGAGCTCC CCTGTCCCTT CTCACAACTN CTCCCTTTTC CCTCTCCTGG 120
GCCCTTCCTT AGGTCAGTAA TTGTTGTGAG CCCCTTAGGC TCCTTGCATC CCATCCCTAA 180
CCCTTGCCTG ACCATGTGAG GTTATCTGAA GCACAAGNNC CACCCTNANG NNGNNTNTCG 240
ACCCGATTTT CTACCACCTT TTTTGGGCCG ANCCNAAGN 279
```

(2) INFORMATION FOR SEQ ID NO: 4770:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 203
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05660
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4770:

```
GATCCATGTA ATCTGACGTC ATCTTGTCTC GAAGTCTCTT TTTTGGCCC AGGCCTTGAA 60
GAATACACTG TGA CTTAAGA AGCCTTACCA CGCAGTAACT AAAGCTTTAG GATGACTGTN 120
TTCGAGGAGT GCCGTGTGTT GCATGCAGCT ACCCGTAGGA AGACTTCGCG CATATCACTA 180
ATAAACCTGA AGTCGTGATG AAA 203
```

(2) INFORMATION FOR SEQ ID NO: 4771:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 112
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05661
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4771:

```
GATCGTTGTG CTTTNTTTNC TGTGTTGGTT GCCAGTTTAT AGTGCCAACA CGTGGCGCGC 60
CTTTAATGGC CCGNGTGCAC ACCNAGCACT CTCGGGTGCT CCNATCTCCT TN 112
```

(2) INFORMATION FOR SEQ ID NO: 4772:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 291
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05662

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4772:

GATCTGGGAG GTGGAAGCCA GGCCAGAGGA CTTGGGGAAA ATNAGATGGA GGAAGGAAAA 60
 AGGGAGAAGC TGAGCCACAG CTTAACTCCT ACAGAGTGAA ATNAAAACGG GCTGAAAATA 120
 CCACCCCAGG AGAGGACCTC GNCCCANGCA AGCCAGTGAG CAGCCCTGCC AGACTACTGN 180
 CAGNCTGNGA AACCCAGANG CTGGGTAGTC ATGTGGGGCT TGCCTTCTTT TGCCAAAACG 240
 NCTGGGGGAA NCCAAAAATN GGGCCCCACC CTTNNTGTTT CTTTCCTNG N 291

(2) INFORMATION FOR SEQ ID NO: 4773:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 133
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05665

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4773:

GATCCCAGGC CTNTGGCTAG CAGCACTGAG GACAAGGAAA TGGNTGGTCC CCTTGAGTAG 60
 GTCGTTACAA GGCTCAATGC CTGGTNGTCT TGGAGGGTAC TCGGAAATAA ATTGTAGCAG 120
 CTTTCCTGCC AAA 133

(2) INFORMATION FOR SEQ ID NO: 4774:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 316
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05667

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4774:

GATACCCAG CAGGAGTCGT GGCAGAACGG AGCATCAGCC AGACCCTGTT GTGGGCGTTG 60
 TCATCAAGGG AGCTTGAATG GAGGGTCTGG TGTCAGATAC AGCCGACTCC AGCCCCAGCT 120
 CATCCCCAT GATGCTGTGT GACCCACTGG GCACTCTGGT GAGGGAGCTT TCCAGACATC 180
 AACAGCCCAC TCTGCTTCCC TTTCTGAGTC CCCTGTCCAG CACTGCCTAG TGTGAGGGG 240
 TAGACCAAGG CTGTGCATGA TTCACCCNT CCTTCCATCC TGGAGCTGGC AGTGAATAAA 300
 AGCCCGTATT TACAAA 316

(2) INFORMATION FOR SEQ ID NO: 4775:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 113
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05668

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4775:

GATCTCCAGA GACCCAAGTT TAGGTTCTCA TAGTGTATTT GAAGTAGTTA TACTCCTGGC 60

TTAAGTAGTT TAGTGCCTGG GAGAATCCAT TACTGAAAAG CATTTAAGTT AAA

113

(2) INFORMATION FOR SEQ ID NO: 4776:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 157
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05669

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4776:

GATCTAACAA AAATGAAACA TGAAATGCAG TAGCAACCAC TAAAAAAAAA AATTCAAGGN 60
 CATCTAACTN TTTCTCTCAC TTTNGCCCTT TGTTTATCCT TCCCTGTGAT TAGATAANCA 120
 NAATAAAAAAN CAAAATGCTG TATTTCTCTN CTTACGN 157

(2) INFORMATION FOR SEQ ID NO: 4777:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 214
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05671

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4777:

GATCACTTAG AGAAACAGGC CGTTAGGAAT CCATTCTCAC TGTGTTTCGCT CTAAACAAAA 60
 CAGTGGTAGG TTANTGTGTT CAGAAGTCGC TGTCTTACT ACTNTTGC GG AAGTATGGAA 120
 GTCACANCTA CACAGNGANT TCTCAGCCTA CAAATTGTGN CTATACATNT CTAAGCCTTG 180
 TTTGCAGNAT AACAGGGCA TTTNGCAAAC TAAA 214

(2) INFORMATION FOR SEQ ID NO: 4778:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 141
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05673

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4778:

GATCAGTTTN CAGCAGCAAG TACAAAAGGA GAAGAGGAAC ATCCGTTGAA TNAGTGTGTT 60
 TTGTACATAA CTTGAGATAC TTGTNAACAT GCCTTATATT TGTCCAACAA CTGTCAGANT 120
 AAAGAACATT CTAAATNAA A 141

(2) INFORMATION FOR SEQ ID NO: 4779:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 154
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05674

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4779:

GATCTTGTGA AAACACNGTN TTNTCGACTA AAAATTCCAC TNTCTTCATC TNGTTGTGAA 60
 GCTAAAAAGA GGGACTGTTA AATACAATGT ATGATACCAT GGCAAAAATC TTTCTGAAT 120
 TGTCTTTNGT AAAAGTATTA TTGAATTTTN CAAN 154

(2) INFORMATION FOR SEQ ID NO: 4780:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 236
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05676

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4780:

GATCAAAATA GCTATTGCTA CAACATTTTC GAAAACAAAG TTGGGGCTGT ATTTCTTTAA 60
 AAAGATAAGC CTCTAAAAAT GCTTGGCAAA AAAAATATAG TGTTAAAATA GGCCAGTGAT 120
 ATTAATGAGA AAATGAAAGT ATGTATCAGG ANTAANGTGA TATTGCATAG GNGTATTGTA 180
 TTTTNATGAA TTTNATGCCA GTTGTTTACA TGTACTATAT ATGTNAANTT ANNNNN 236

(2) INFORMATION FOR SEQ ID NO: 4781:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 168
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05679

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4781:

GATCTCAGTT GCACGTGCAA ACAAATCCAA ATTCGAACAT TCTTAGGAGG TTTTNTTAA 60
 GGCATGACAG ATGATNTAAA CAAATAAATA GCATGCAACA AAANGTCTTT ATTGNAAGAA 120
 GTGGAAGTTA TCTTAATGCC ACGGNTCACC ANCAATTNAA AAGTANAN 168

(2) INFORMATION FOR SEQ ID NO: 4782:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 79
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05680

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4782:

GATCAGTGAA CACTAACATT TTGGGGACAA CTTAGTCAAT TGGTTTTCCT TACAACAAA 60
 TAAAGTAAAA TGTCAGCAA 79

(2) INFORMATION FOR SEQ ID NO: 4783:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 107
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05681

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4783:

GATCACCATT CAATTTGAGT TTCCAGGGGG AAGTGCATGT ATAATGNAAT GATAATGGAC 60
 TTCAATGANG GATGTCATCA ATNATGNACA TATAGATNGC CTTATAN 107

(2) INFORMATION FOR SEQ ID NO: 4784:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 319
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05682

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4784:

GATCTAATAA GACACGTAAT AGATTAGAAG TAGGGAAATT AATGAAAAAG CAGAATTAAG 60
 GATGACTTCT CACTGGCTTG AAATNCTAAA TGGATGACGG TGCTGTTTAG TGAGTTGGGG 120
 AAGACTGGGC GTGGTGATGG GTGTAGAAAT TGAGAAAGGA AAATCAAGAN TTTCCAGAAC 180
 TTTTCAGAGCA ATGTTAAATA CTTTCCTTGA TAGTGGGTCA GTCATCATTT ATAAGTGCAT 240
 TTCTAAAAAT NTTGCTTAAT TTTNTTTTGT AGCTTTGTAT AAGTGGAATT TTGTGTGTAC 300
 TGATTATNTT GCTCAATAN 319

(2) INFORMATION FOR SEQ ID NO: 4785:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 78
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05683

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4785:

GATCTTTTCT CTGTGATTCT TATAAGAGCT TTGTCTTCAG AAAAATAAAA AATAAAAGGC 60
 ATTGACTTAA ACAGCAAA 78

(2) INFORMATION FOR SEQ ID NO: 4786:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 51
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05684

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4786:

GATCAGTTGT AAGTTCATTT CTTTACAAAT AAAAGCCTCT TCCATTTGAA A

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(2) INFORMATION FOR SEQ ID NO: 4787:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 288
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05685

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4787:

GATCTTTTCC ATCTGAGGGT ACAGGAAGTA CCAGGACCTG TTTCAGTTTT TNAATCCTGC 60
 AAGCACATTC CAAGACTGGC CTGAAACTGC ATGAGCAACA TCACTCGAAA TAATTTTTTT 120
 TTTCAAANGC ACCTTAACAA CCANTTGCGA TGCTGTCCTG TTCCTTTTTC CTCACACCCT 180
 TCTNTCCTTT CTCGTCCCA TGCTCCACCA NCTCAGTGCT NTGTGCTGTA TCGGTGTGCT 240
 CTCTGTTNTN GTATACTCAA TATANGTGNA ATAAACTGGT GTTTTGTN 288

(2) INFORMATION FOR SEQ ID NO: 4788:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 278
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05686

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4788:

GATCATGCAT GCAGTCATGT CTCCAGTATT CTGTGAAAAG CCAGGATACG TTAGGATGTG 60
 AGTTTAGAAA CTGAGTCCAT TCGGTGCATG GAAATNCACC GCGGAGTTAC ACAANGCTCC 120
 TCACTGTAGT CCAGGCGATT GGTNGGCCGC CACACCCTG CGGGCTTCAC AGGGACGCGT 180
 GCTTGTNCTC CAAGNCCCGN AACCCCTTACT GTGCACACAN CATCNNACAC ACCTTTGTTT 240
 TTGAAATTAA AATGTTNATT AGTTNAAAAA AGGGNGGN 278

(2) INFORMATION FOR SEQ ID NO: 4789:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 337
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05687

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4789:

GATCCCGGTG TGTGGCCCAG CTTGTNCAGG CCCTGGNATG CTGCATCTCC AGGCAACTAT 60
 GCACTTTCCC GGGGAGAGAA CCAGTATGAG AAGTGGGGGC AGGGCACACA TTCATCTTTG 120
 TAGGAAGGTC TGGCCTGGGG TCGGGTGAAG GAGGGCCCAG GTCAGTNCTG GGGTCCAGT 180
 GACCTGCTTT GCCATTNTCC TGGTGCCGNT GCTGCTCCCT GTTTCTGGAG CTGGATGTTN 240

CCNAGCTGGC AGTTGAGCTG CCTGAGCCAA TNTAGTCTAG NCTTTGGTAA CTTGNGTGAA 300
CCATAATAAN GGGGAACCAT TNTNGGCCTT GTGNAAA 337

(2) INFORMATION FOR SEQ ID NO: 4790:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 251
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05688

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4790:

GATCACAAGG CTGCCTGCCT CAGTCTTGGA GTCCTGTTGG GTGAATNAGG CAGATGGGAA 60
ANAGCCTCAC CAGCAGCTGC TTTTGAGCA GGGGTCCAAG GAAGAGAGGG TGGCCTCGAC 120
ATCAAACCTGC CTGGATTTT CTACCACCCT GTTACATCAT AACAACTTCT GAAACACACA 180
CCAGCCCTGA GTTCTGGGCT CATTTGAAGC CTGGAATAGC AATAAATCTT TTTAACTTGC 240
GGACAGTTAA A 251

(2) INFORMATION FOR SEQ ID NO: 4791:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 316
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05689

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4791:

GATCGAAGAT GTACAATGTT AAATGTNCAT ACCAGTTAAA CTGCACTTTC CCAAGGGGNC 60
AGCTGGNATC TACTTGAAAT GGGNATCAAG AGACCACCAA ATGTTTACAG TTTCTGTGGC 120
CCGTTTAAGT GTAAAATGCA GAAGTGGCTC TGTCCTCCCA GAGTTAAGGN TTTGCTACAC 180
TGGTCCTCTG GAAGCATTTA NGTAGAAGAA AAGGCTTATA GTCAGNNTCA CTTTTAGTAA 240
TCGTCTNCTG GTCCTTGGNC TNTTCTGGTT CTGTNANTGC TTGTAACCAA TGANTGATGG 300
TGTTGCCAAT CTNAGN 316

(2) INFORMATION FOR SEQ ID NO: 4792:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 346
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05690

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4792:

GATCAGTCCT GTCATCCAGC TGCAGCCCAC CTTACACCCC ATGCGGGTCG CACTNGCTGG 60
CACATTCCAC TACTACAGCT GCGAGAGAGC CAAAAGGCC ATGGGCTACC AGCCACTAGT 120
GACCATGGAT GATGCTATGG AGAGGACCGT GCAGAGCTTT NGCCACCTGC GGAGGGTCAA 180
GTGAGGGNCA CTNGNGGCTG GGCTCTCTNG ACACGTTGCT CAGCCAGTCA CTNCTTCCCC 240
TGNTGGATTG ATGAGNTAAC ATCCTTTNGA ATGGAGTTN GCTCTTGCC TGTGACTCCT 300

TCTGCTAGGC AGNGGAGCGC ACCNTACTNT TTNCGTNGCG GTGNGN

346

(2) INFORMATION FOR SEQ ID NO: 4793:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 187
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05692

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4793:

GATCCCAGGG ACTCATCTG TGACTTTGTA ACCACACTCA TTCCTTTCAA ACACAGAGGA 60
 GGAATTATTG CTTTCATCTGA CTTTATTCAA ATCTAGTTAT GTATTGGCCT AAATTATTTG 120
 TGCAAAATTT GAANNNNNT TTNATTTAAA TATTAGAAAT AGCACAAAGT CATGGNGTTT 180
 TTAANAN 187

(2) INFORMATION FOR SEQ ID NO: 4794:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 228
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05693

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4794:

GATCTCAAGA GCCCTGTCAG TAGAGTAGAA GTCTCTTCCA GTTGCTTTG CCCTTCTTTC 60
 TACCCTGCTG GGGAAAGTAC AACCTGAATA CCCTTTTCTN ACCAAAGAGA AGCAAAATCT 120
 ACCAGTTCAG AATAGTGCCA CTAACGGTTG AGTTTTGACT GCTTGGAAGT GGAATCCTTT 180
 CAGCAAGACT TCTCTTTGCC TCAAATAAAA AGTGCTTTTG TGAGCAAA 228

(2) INFORMATION FOR SEQ ID NO: 4795:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 230
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05694

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4795:

GATCTGCTTA AAGTTTAACT TTTTATACCT ATCTGAGTGA ATTACAGACA ACCTATCATT 60
 NATNCTGCTN CGAGGGTCCC CAGGGCCCTT GTACAACCGA CAGNTCTTAC TTTTAAATGC 120
 AATCTCTTGT CTACATACAT NATTTTCTTA ATTNNGTTAGC TATTTATAGA AAGCTGCAAT 180
 AGAACTGTNT CAACTGTATA ACTATTTACN ATTCANAATA NAANTATTTN 230

(2) INFORMATION FOR SEQ ID NO: 4796:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 367
- (B) TYPE: nucleic acid

(C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05695
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4796:

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GATCTCATT  GCTGAATGAT  TGATTTAAGA  GTAAATTTNG  CCACTGCGTG  CTTTTTGTAT  60
AGTAACCGGT  TTTGTTGCAC  TNGTCTGTGG  CTGAAACACT  TACCTGCAGT  GGAANGCCGA  120
GCAAGGAGGA  GGTAAACATT  GGAGATGTTT  GTGAAAATAT  TACTCTTGCT  GTGAGGTTTT  180
AGTTTGT TTT  GAATGAGAAA  GGGGCTAAGT  AACTTAATCC  ATCTCAATGT  AGTGTTTAA  240
TAAAAANGGN  GCCTAATATT  TGAAATGGGG  TCTCAGGNCA  TGNTCTACAA  ATNTGGGGNA  300
NCTATTTTNN  ATGCCCCGTG  TAATTTTNCA  CCATTTTGNN  NATGAGTTNA  TTGTAGGGGT  360
CANNATN
  
```

(2) INFORMATION FOR SEQ ID NO: 4797:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 88
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05696
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4797:

```

GATCTTTTCT  CAGAGCGTCT  CCATGCTATG  GTTGCAATTC  CGTTTTCTAT  GAATNAATTT  60
GCATTCAATA  AACAACCAGA  CTCAGAAA
  
```

(2) INFORMATION FOR SEQ ID NO: 4798:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 239
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05697
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4798:

```

GATCACAAAGT  GCAGCATTCC  TTAATTCCTT  CTGCTATATG  TCACACAGTT  GTTATTTGGA  60
GAACCAAGTA  TGTATTGCAT  GAAAACATTA  TGACTTTTTT  CTCTTAGTTT  AAATAAACTC  120
CAAGGTAAGT  GGAATTCTAA  AGCACCTTTC  TGTTTGCTG  ATATCTACTT  TAGCAATAAT  180
TTTTTTTACA  ACCCTCTGAC  TCAACAAAGT  AAATAAAAGT  ATATTTTATC  ACTATTAAA  239
  
```

(2) INFORMATION FOR SEQ ID NO: 4799:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 148
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05701
 (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4799:

GATCTGGCCT TATGCCAGG CCTGGGCCCT CAGAAAGCCC GGAGGCTGTT TGATGTCCTG 60
CACGAGCCCT TCTTGAAAGT ACCCTGATGA CCCCAGCTGN CAAGGAAACC CCCAGTGTA 120
TANTAAATCG TCCTCCCAGG CCAGGAAA 148

(2) INFORMATION FOR SEQ ID NO: 4800:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 109
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05704

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4800:

GATCCTCAAC AGACACCTTC CTTGACTGAA AGTTTAAATC GTGATGCAGA GNCAGTCAGT 60
NATNTNCCGC CATCCACAGG AAATTCAGCA TCTTTATCTC TNCCACTTN 109

(2) INFORMATION FOR SEQ ID NO: 4801:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 147
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05707

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4801:

GATCAATTCA ATTAGATTAA AATNAAGAAC CTTGGGGCAG AGTTTGGGTT TTGTAAAATN 60
AAAAGAGTTC TGGAGTTAAG CATCGTGAAC ATGCTTAACA CTACTGAACT GTACACTCAT 120
TTTATAATAA AACTATTAAA TTGTAAA 147

(2) INFORMATION FOR SEQ ID NO: 4802:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 295
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05708

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4802:

GATCTAATTT AAAATTCATT GGATTGAAAT NTATTGAATA TAATTCANCT TTTGTAAC 60
GGTAGACTTT NCTNATAGTT TAGTTTTAAT ATAGTTTAGG GTATTACTGG CTTTTCCCA 120
GGTGACACAC TAAGGNCCTGT TTACATGGCA ATTCCAGCAG CAACAGGNGG CTGGAATTNA 180
GACAAGGAAA GCTCATTTGT TTCTTTTATG AAGGTAAAG AAGTCTACAG CTTGGGCTGG 240
CCGGTATTTA TTNATTCTGT GGCCAGAGGA TTTTAAATTT NNCNCNAATN TTNTN 295

(2) INFORMATION FOR SEQ ID NO: 4803:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 52
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05709
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4803:
 GATCATGCCA CTGTCCTCCA GCGTGGCAAC AGAGTGAGAT TCTGTCTCCA AA 52

(2) INFORMATION FOR SEQ ID NO: 4804:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 374
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05710
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4804:
 GATCAGATGG GGACACACAA CCCCTGGATA TGTTTCATTG TCAGATTTTG TGCTGNNATT 60
 TTAAGAATGG AATGGTGGGT ATCTTTCCTT TTTTATAATG TATCTTAACT GTTGCTGTC 120
 AGTGNNNACA AACTAGTGCG TTGACGGCAC CGTGTCCAAG TTTTATAAAC CCTTGTTAGC 180
 CAGACCGAGG TGTCTGGTC ACCGTTTCAC CATCATGCTT TGATGTTCCC CTGTCTTCC 240
 CTCTTCTGCT CTCAAGAGCA AAGGTTAATT TAAGGACAAA GATGAAGTCA CTGTAAACTA 300
 ATCTGTCATN GTTTTTACCT NCCTTTTCTT NTTTNAGNGC AGAGGTTAAA AGTAAGTATN 360
 AAGCACCCGT GAAA 374

(2) INFORMATION FOR SEQ ID NO: 4805:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 123
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05711
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4805:
 GATCTGACTG TGGAAACATC CTCTCACTTG CATTCTTTTA ACTTAAAACT ATTTAAGAAC 60
 TGATGTTCCG ATTATTGTAT ATATTNNNCT AAAANCCAAA TAAAGCTACC TATGAAAATG 120
 AAA 123

(2) INFORMATION FOR SEQ ID NO: 4806:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 299
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05714
 (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4806:

GATCAAACAG GAAATTGAAA GCCACTGNAA CTATGCAGCA TTTCAGTTTT CATTTAAACA 60
 CTTAGTTCAG AAACCTTAAA GGATTTGANT ATTTCAAATT GCACACGTCA CTCCAGCATC 120
 TCTGTAANAT AATTGGAATG AANATACTTC TTGCACTTAA ACACTGCACA TGCCGTNCTT 180
 TGCGGTTNGT CTGCATCTTG AACTTTAATA CCAANTTNMT TTTGCATGCT TTTGTTTCCT 240
 ACGNGATAAT GGCATGGTTT CATATGTNAC TACTTTGGAC CAGTGTTTTC ANNATGGNN 299

(2) INFORMATION FOR SEQ ID NO: 4807:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 204
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05715

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4807:

GATCTGGACA AATGACAGTA ACTGTTTCTA ACCTTGATTT TCTCATCTNT AAGATGCCAA 60
 TTGTAACCTC TAAGNTACT GAGGATTTTT TAAAATGCGT GTACAGTTCC TGACCACTGG 120
 TTTGTGCCTA ATAACNTATT ACAAATNATT ACCNAGTAAA ANCCTTGCGC CANGTGTGAN 180
 AACGTAAAGC TANTTAATCC ATNN 204

(2) INFORMATION FOR SEQ ID NO: 4808:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 348
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05716

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4808:

GATCAAGCGA CCTTGAGAGC AGAGNACAAA TCCCAGTGTT GCTGATATAT GGCTTCTNCT 60
 TCTCTTGTGT GTGCCTCAGC TCTGAAGNAG TTCCTGAGAA TGGGTTACAG ATGTCATGTT 120
 AGCTGGGAGT CTTCCACAT GTGGCACTTC AAAAGGCAGC ACCACTGGGC GCCTGCACTT 180
 ATTTGAAAAT GGNACTTTGG GNGAAGTATC CCTGCTAGTG GCTCTGTAAC TTAACAGATG 240
 TCANTTAGGC TTTTGTCAAT GTTGCCATCA TATNNANGCT AATGTNTACA TCCTTTTAAA 300
 CANNTTNGT ATGACAATTN CCTCAGGATT TNGGGTAAGN CTTCCCAN 348

(2) INFORMATION FOR SEQ ID NO: 4809:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 287
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05718

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4809:

GATCCTCCTG CAGACCACGC CCGTCCTGCC TGTGGCGCCG TCTCCAGGGG CTGCTTCCTC 60

CTGGAAATTG ACGAGGGGTG TCTTGGGCAG AGCTGGCTCT GAGCGCCTCC ATCCAAGGCC 120
 AGGTTCTCCG TTAGCTCCTA TGGCCCCACC CTGGGCCCTG GGCTGGAATC AGGAATATTT 180
 TCCAAAGAGT GATAGTCTTT TGCTTTTGGC AAAACTCTAC TTAATCCAAT GGGTTTTTCC 240
 CTGTACAGTA GATTTTCCAA ATGTAATAAA CTTTANTATA NAGTAAA 287

(2) INFORMATION FOR SEQ ID NO: 4810:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 342
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05719

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4810:

GATCACCACC CCGAGCCCTC TNATCCTCTA TGGNTTCACT CCCATCATGA TTTGGAATTA 60
 TTTATTTGTG AACTTGATTA GCCGAGATTG TAAATNACAT GAGGTCAGGG ACTGGACTGG 120
 GTATGTTTTT TTCTCTGTTG CTTTCCTGGC ATGAAGTACA GTAAATACAG CACCTGATAC 180
 ATTATACATG GCCACAAATA TTTGTTGAAT GAATGANTAA AAGCACATTG GGTCTGACC 240
 ATTCAGTGTC CCTGNAANGA ATGCAGTTTT TCAAACCTGT GCNTCACCAT CCATTAGCGG 300
 GNGTGTGAAT CCAATTTAGG TNGGTGATGT CTAGCATTNN AN 342

(2) INFORMATION FOR SEQ ID NO: 4811:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 299
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05720

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4811:

GATCATTAAAC CAGAGTACCT CTACTCTTAG CAAACTCTAG TTTATGACAA GTATTTAAAA 60
 TATTTAAAC AAGCTTATGC AGTTCTTAAG GNCGNAGGTA AATGAGATGT ANCTTAAAAA 120
 TAGTATTGGG AAAATGTTGA TAGTTAACAT TAGTGGATTT AGACTAGCCA AATGACATAG 180
 TAGGCTCTGA AACATCTTGT CAAGTNTATG TTTTTGTGC ATGANTTTTT GCTGGAAAGC 240
 TGTCTTTCTC TGAAAAACAC ANCGTTCTTA GACTGNNANG CCANTTATAA CNTAANN CN 299

(2) INFORMATION FOR SEQ ID NO: 4812:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 310
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05721

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4812:

GATCTTNATG CCAACATTG GTTATGGAAG CAACAAAAA ACAAAGCACA TGCTGCCCAG 60
 TGGCTCCCGG AAGTNCCTGG TCCACAACGT CAAGGAGCTG GAAGTGCTGC TGATGTGCAA 120
 CAAATCTTAC TGTGCCGAGA TTGCTCACA TTTTNNGNTC CAAGANCCGC AAAGCCATCG 180

TGGAAAGAGC TGCCCAACTG GCCATCAGAG TCACCAACCC CAATGCCAGG CTGCGCAGTG 240
 AAGAAAATGA GTAGGCAGCT CATGTGCACG TTTTCTGTTT AANTAANTGT AAAANCTGCC 300
 ANANAAANTN 310

(2) INFORMATION FOR SEQ ID NO: 4813:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 63
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05722

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4813:

GATCCCTTTT CTTTGTATGG ACCAGAAATN ATGGGTTGTA CAGGGTGCCA GATAGATTGG 60
 AAA 63

(2) INFORMATION FOR SEQ ID NO: 4814:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 127
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05723

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4814:

GATCCAGTG CTCTACTGGG GGATGAGAGA AAGGCATTTT ATAGCCTGGG CATAAGTGAA 60
 ATCAGCAGAG CTCTGGGTGG ATGTGTAGAA GGCACCTCAA AATGCATAAN CCTGTTACAA 120
 TGTAAA 127

(2) INFORMATION FOR SEQ ID NO: 4815:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 350
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05724

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4815:

GATCGAATAC AGATGACCCT GCTGTCGTGT CTTCAATTTGT AAAATNCTCC TACAAATGGA 60
 GACATTGAAG GATTATGTGT ATGGAAATNT TTACAAAATT CCTTTCTGTA CCTATTCTGT 120
 AGATGCCTGT ATAATCGGNC TGGATGTACA GCTATAAATG TGTTGTGAGA GCAAGAGAGA 180
 GAGAATGGGT AGAGCCTGCT GTACCTTTTT CCTTTTAAAT TCTTCGAGTT GGTAATGAG 240
 TAAGATATTG GAAACCTTAA TGNAAGCTG CTGTTTCATGN TTTGTGTGTA TAGTGAGCTG 300
 CCTGTAGTAT TTNNCTATTG TCTGNTAAAA AAAGNAAANC CTGTAAAACN 350

(2) INFORMATION FOR SEQ ID NO: 4816:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 178

(B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05725
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4816:
 GATCTTGAAC AAAGNCACTT AGTTNCCCTG GGCCTTGGTG TCTTTCGTCT ATAAAATATT 60
 GTACCAGATT ATCTCTGAAA TCACTNCAAG GTTTAATATA TATANTTATC AATATTTTAA 120
 AATTCAAGCA ATATTCACCTT TAGANATTAT TATAACATTC TATANTNGTN GGGGGGGN 178

(2) INFORMATION FOR SEQ ID NO: 4817:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 123
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05726
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4817:
 GATCGAATCG GGACATNATG GGAGCTGACA AATTTATATT CTNTTTCAT NATTTTAATC 60
 CCACTTCACT GTGAGGGGAA GGCCTTTTCA CGGGAACCTC CCAAATATTA TTCAAGTGCC 120
 AAA 123

(2) INFORMATION FOR SEQ ID NO: 4818:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 61
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05727
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4818:
 GATCCCAAAT TTGTCCATAG CTGAAGTCCA CCATAAAGTG GATTTACTTT TTTTCTTTAA 60
 A 61

(2) INFORMATION FOR SEQ ID NO: 4819:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 292
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05729
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4819:
 GATCTATAGA ATTAGATTTN NTTATATCTA AAGAAATATA TATAAATACA TAAACGTAGG 60
 TATGTATAGC ATGANCAGAA TACAGTGCTA TTTGACCATT GTCACAAGAC TTATTTATAA 120

AACCTCCTCA AGCTCTTGCC AATATCTTAG TTAAGNTTGC ATCTAAGGTG GCGCGNGGAT 180
 GNNGATTGAG GCACTGTCAG GTCATGNTTG ATTACCTGGG TGACAAANATT ATGTTTACAC 240
 CAAACCCCCA TGNACACAG TTTACCCATG TGACANNACN TNCACATGTC CN 292

(2) INFORMATION FOR SEQ ID NO: 4820:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 61
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05730

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4820:

GATCCCCCAT ATACTCTGCT ACAGCTCCTA TCATGAAAAA TAAATGTTT GTCTTTGCAA 60
 A 61

(2) INFORMATION FOR SEQ ID NO: 4821:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 140
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05731

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4821:

GATCCGNTGG GGTGAAAGCA GCCAGCTCAT CCCAGTAACT CACAGGACAC AGCCATCCAG 60
 CGGCATCTTT CTTGTGCGAA TGATACTGTA ATNACCTTCC AAAGTNAAGA GTAGCACATT 120
 AAAGTNATTT TATTGTTAAA 140

(2) INFORMATION FOR SEQ ID NO: 4822:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 309
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05732

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4822:

GATCTCAATG CTGTCTGGGG ACCCTAAGAG TTTNCTNACC TGTNCAGTCT CATCTAACCT 60
 TCCAATGTCT GATGTTCTTG CCAAATTCCT GCCTGATTCT GGGTCCGTCC TGACCTCCAA 120
 AGGTCAGCTT GGTGCTTGAG GTCTCCCTGC TCTTGGTGGC AGTGGTAGCA GCAACAGCAG 180
 CAGCAGCAGC AGCAGCAGCA GCAGCGNCCT CTCCACTTTN CCTTNGCCCN TCTNCTGGGT 240
 AGAGAGGCAC TTTCAGGGAC TTTCCTCCAG GNTGGNTCNT CAATATGGGA ATGNGCTNTG 300
 NAAGGNTTN 309

(2) INFORMATION FOR SEQ ID NO: 4823:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 109

(B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05733
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4823:
 GATCCTCCTG GCGGCAGTAG CCTTGACAAG GGCCACCTCT TCACAGGATG CAGTCTGTCT 60
 GTGCACCAAA CTCTTCACCA AATAGAACAC TTGTGTCTCT CTGTGGAAA 109

(2) INFORMATION FOR SEQ ID NO: 4824:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 233
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05734
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4824:
 GATCCATTTG GNAGGAAATG AGAGGGCTGT NATCAGCTCT NATTAAGAAA GGAGATTCT 60
 TCATGCTTTC GATTCTGCAT GGGGTACAGC CAGTCACCTC ACCAGAGANT GACGGCTGGA 120
 GAAGTNAACT CTGTAATACC ATAAATAAGA GTGCTTGTA TAAAGNCTG TGCACANGGA 180
 TTAATATTTT CCNTCTTAAG TATCAAACGA CCTCTGGANC AAATTNTACC NTN 233

(2) INFORMATION FOR SEQ ID NO: 4825:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 102
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05735
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4825:
 GATCTGACGT TTTCTACGTA GCTTTTGTAT TTNTTTTTTT TTTAAANTTG AAGGACCACT 60
 GATGAAGCCC TNCCANACCC CTCCGGGTC TAANAAAACG TN 102

(2) INFORMATION FOR SEQ ID NO: 4826:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 277
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05736
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4826:
 GATCAAGAAA TNTCTCTNCT CCTACATCCA GCTCCTCTAG GGGCAGCCTC CGTCATCCAT 60
 GCCCTCCCAG GACCCTCCAC TCACTGCTGT GAGTGCGCCT CACCAGAACC AGTTAAGAGA 120

CAACTATCAA TTNNGGGGAC CCAAATTATA AGGGCCCTGN CCTGTACTGA AGNAAAGGGG 180
 NGCACAAGGC CTTAATGGAC ATTGNCTTGT GAAAACGCAN ACATGAATAT GGTTGGAGAG 240
 CNTGGCTTAG GAGGGTGTCA TGGGGNAGNA GNGGCTN 277

(2) INFORMATION FOR SEQ ID NO: 4827:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 98
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05738

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4827:

GATCCCTCT CCTGCCAAG CACTTCACAG CTGGACCCTG CTTACCCTC ACCCCCCTCC 60
 TGGCAATCAA TACAGCTTCA TTATCTGAGT TGCATAAA 98

(2) INFORMATION FOR SEQ ID NO: 4828:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 81
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05741

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4828:

GATCTGGGAT TTTNTTTTTA TTTTGAAATG GGAGCTTTTT TGTTTACAAG TTCATTAAAA 60
 ACTAAAAACT GTTTCTGTAA A 81

(2) INFORMATION FOR SEQ ID NO: 4829:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 234
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05742

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4829:

GATCGATTTT TTTCTCCAG GTAGAGTTTT CTTTGCTTAT GTTGAATTCC ATTGCCTCTT 60
 TTCTCATCAC AGAAGTGATG TTGGAATCGT TTCTTTTGT TGTCTGATTT ATGGTTTTTTT 120
 TTAAGTATAA ACAAAGTTT TTAATTAGCA TTCTGAAAGA NGGAAAGTAA AATGTACANG 180
 TTTANTAAAA NGGGGCCTTC CCCTTAGAC TAANTTTCAG CATGTGCTTT CAAA 234

(2) INFORMATION FOR SEQ ID NO: 4830:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 130
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05743

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4830:

GATCCACCCA CCTCAGCCTC CCAAAGTNCT GGGATTACAG NCATGAGCCA CCATGCTCAG 60
 NCGTGTGTGT NTGTGTGTAT TATTTATATG TATATGCATA CTATATACAT NTATATATAC 120
 ACTATATAAA 130

(2) INFORMATION FOR SEQ ID NO: 4831:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 103

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05747

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4831:

GATCTTTAAT CAAGCACTAT GTTAATACTG TAATATCAGA ATACTATGTT GCATTATTTA 60
 AAATGTTCAA ATTGAATAGN TTAAAANGTT TTAAATNCT AAA 103

(2) INFORMATION FOR SEQ ID NO: 4832:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 325

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05748

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4832:

GATCCTTGTT GCTGTGTGCC CCACTCCAGT CTGGGGACCC CACTTCANAA GGTAGGGGCC 60
 GTGTCCCGCG GTGCTGACTG AGGCCTGCTT CCCCTCCCC CTNCTGCTGT GCTGGAATTC 120
 CACAGGGACC AGGGCCACCG CAGNGGACTG TNTCAGAAGA CTTGATTTTT CCGTCCCTTT 180
 TTCTCCACAC TCCACTGACA AACGTCCCCA GCGGTTTCCA CTTGTGGGCT TNAGGTGTTT 240
 TCAAGCACAA CCNACCACAA CAAGCAAGTG NATTTTAAGG GGGTTGTGCT TTTTGTGTTN 300
 GTGCTAACGT CTNACTAATT TTAAN 325

(2) INFORMATION FOR SEQ ID NO: 4833:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 212

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05749

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4833:

GATCTGAAGA GAAGCCAGAG TATAATTTNC TACTATTTTC AATACAAAGN TGTGTTTTCA 60
 TTACAATTAG NGGAATATAG GCTTCTGTGA GCTAGCCTGG AAGCAAACAT AATCATTATT 120

GTNCATTGTT TCTGTGNGAN ACTGTAATGC TGTTTCTAAA TATTGACCTA ACANTAACT 180
CTGNGGAATT CATGCTGTGN ACTGGNTGGA AN 212

(2) INFORMATION FOR SEQ ID NO: 4834:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 284
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05751

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4834:

GATCTGGCCT TATGCCCAGG CCTGGGCCCT CAGAAAGTAA GAGCTCTGGG AAAGAACCCA 60
AGGAGTTGGG GGAAGGAGAG AGCCCCAAAT AAACACAACC TGAGACCCCA AAGTTTTAAG 120
GTGNAAAANG NACCAAAGAC CAGNCACAGT GGCTTCGCC TGTAATCCCA NCATTTTGGG 180
NGGCCAAGGC GGGAGGACTG CTTGAGGCCA GAAGTTGGNG ACCATGCCTG GGCANCGTGG 240
NCACCTCATT TTTACTACAA ATNAAANAAN CTTCGCTGNG TAAA 284

(2) INFORMATION FOR SEQ ID NO: 4835:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 60
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05752

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4835:

GATCCTACTG ATGAAATTCC CACTAAAAAG TCAAAGAAGC ATAAAAAGCA CAAAAACAAA 60

(2) INFORMATION FOR SEQ ID NO: 4836:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 144
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05754

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4836:

GATCAAAAAA TTGAATGATA AATATGAATG GCTTTTCAAT TCTGTGGACT TTGTACCATT 60
TGGCTTCACC TTGTACTGCA AGATGAATTT GTAAACAAAA CAAAATTGGN CTGTCTGGAA 120
AGCTAAAGTN CTGAAATATG GAAA 144

(2) INFORMATION FOR SEQ ID NO: 4837:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 138
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05755

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4837:

GATCACAATG ANGGCCAAGC TTGCNCGCNT AGAGGCCAG GAGCAGGCCT TCCTGGCTCG 60
 TTTCAAAGGC CAGGACCCTG GGGCCCCTCA ACTGCAGTCA GAGAGCAAAG CCCTTAATAA 120
 ATATTTNACA TCCTTAAA 138

(2) INFORMATION FOR SEQ ID NO: 4838:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 84
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05756

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4838:

GATCTTGTTT ACATCTTGCT CACTGCTATA TTCTCATTGC TGAGCACACA GTTGACGCTC 60
 AATAAATTTT GAATGAAGTC CAAA 84

(2) INFORMATION FOR SEQ ID NO: 4839:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 114
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05757

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4839:

GATCACCTNA TGGATGTCGC AATAATACAA ACCAGTGTAC CNCTGACCTN NTCATCAAGA 60
 GAGCTGGGGT GCTTTGAAGA TAATCCCTAC CCCNCTCCCC CAAATGCAGC TGAN 114

(2) INFORMATION FOR SEQ ID NO: 4840:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 323
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05758

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4840:

GATCTGCACT ATNAACCTTG TGAAGAGTTT CTCCTAAAAA CTTTAAGTAA AATGTTAATG 60
 GTAGCTTTGA TAACATCAAA TTCTAAGGGA GAAAAAACA ATATTAAACC GCCCAAGCAG 120
 TGTGCCCTAG CAGAGGAAAA TGCAACATCT CGCAAGCGCT GCTGTAACGC CTTCAGGAGT 180
 CACTGATTCA GCACTAGTTT CCGGCTGTGA AAACATCATCT TTCATTTTTN CCGTGGNTNG 240
 GCGCTTTTNT TANNGTNGT CCTAATGANA TTTCTGNCAT TGTCATATAC AANCNGTGAA 300
 TATCATTAAG ANTTTTTNAN TNN 323

(2) INFORMATION FOR SEQ ID NO: 4841:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 121
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05759

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4841:

GATCAAAAAA AC GTTCTTTG AAGAGCTGGC AGTAGAAGAT AAACAGGCTG GGGAAGAAGA 60
 GAAAGTNCTC AAGGNGANGG AGCAGCAGCA GCAGCAACAG CAACAGCAGC AGCAANANAN 120
 N 121

(2) INFORMATION FOR SEQ ID NO: 4842:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 351
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05763

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4842:

GATCTTCACC AGCTGCTCGT GGTGGCTCGG TGTCTGTCTC TCAGTGCTGG TCAGACAACG 60
 CTGTCAAGAG ANCGATGGCT GAGAGCAAAG CAGCTAGAGT CTTTAAGAAG AACGAGGCTT 120
 CAGCAGCAAA AATGTGTGAA TGGAAATNAA CTTTAAAGAT GTAATACCTA TGAAGAGTAA 180
 TGGGCAAAC GTAGCCACAT AATTGTAAAA TTCAGATATT CATTTATACC ACATTGTTTT 240
 ATAGGTAATT TCTATCACA ACCAGTGACA TTCCTGAAA TCANGCCTGG TAACACCTGA 300
 TGTTTATATG ATATTCAGTA AGGACTTTTA CCTTACTGAT TTCATGGNGN N 351

(2) INFORMATION FOR SEQ ID NO: 4843:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 71
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05765

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4843:

GATCTGAATT TCCCATGCT TCCTGGTTTT NATATGTTTC TTGACAAATA AAGCTGATTT 60
 AAATCTCTAA A 71

(2) INFORMATION FOR SEQ ID NO: 4844:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 111
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05767

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4844:

GATCTTTTTTC TTTATCTCCC TTCCCCTTCC TAAGTCCCAT TTCTTGGTCA TAAATATTGC 60
 ATTATTACACA CTTTCAAACCT GTGTATTTTC TTACAATAAA AAATGATGAA A 111

(2) INFORMATION FOR SEQ ID NO: 4845:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 202
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05768

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4845:

GATCTCACCA CCCACCTGGC CTCGCAGGGC GTTCATCTCC TCCTCGTGGT TCTTCTTCAG 60
 GTAGGCCAGC TCCTCCTTGA GGTTCTCAAT CTGCATCTCC AGGTCGGCTC TGGCCAGGGT 120
 CAGCTCATCC AGCACCTGC TTCAGTCCCT TCCCCATGCT TCCTTGCCTG ATGACAATAA 180
 AGCTTGTTGA CTCAGCTATA AA 202

(2) INFORMATION FOR SEQ ID NO: 4846:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 262
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05769

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4846:

GATCANAACC CTAGCGCCTT TGGTCCTAAG AATGGNAGGC TGCCTTCCNT CCAATCTCC 60
 CTGCCAGGGC CCACAGCGTG GCCCTAGCCC TCCCCTCCCC GGAATGTAGA ACGGGGACCC 120
 TCGCAGGGTT GGGGCGGGGG CTGATACTCC TNGGNCCCTC CCTACCCTGC CCTGTGTGTT 180
 GGCTTTNTGG CCGTCCAAGT GCCAATTGGG TTTTNGCCCA AATAAGGGCT GGTATTTNTN 240
 CTNTGTNCTT GGAGGTGNGN TN 262

(2) INFORMATION FOR SEQ ID NO: 4847:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 250
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05770

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4847:

GATCTGTATG TNAGGCACCC ATAACAGTAG TTTTCCCTGT NAGTCGTCTT CACACATGCT 60
 GTTTTCTCTG CCTGGCTCTC TCTTCCCCTC CTTACCTGGC CAGTCCTGTT TATCATCAGG 120

CCTTGTTNTTG GATATNACGT CCTCTGGGAA GTCTTCTGGG NCCCTCTAAC CTAGGACCCT 180
 CATTACCGGN TCTCATAGNA CAGTCTACTG NTTTGTACGG AATTCTAAGT ATTTCNNGTG 240
 GNACTNAATN 250

(2) INFORMATION FOR SEQ ID NO: 4848:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 227
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05772

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4848:

GATCATTCTT CAATTAGGAC ACAAACCAGA CAGGTTTAAT AGCGAATCTA ATTTTNAATT 60
 CTGACCATGG ATACCCATCA CTTTGGCATT CAGTGCTACA TGTGTATTTN ATATAAAAANT 120
 CCCATTTCTT GANGATAAAA AAATTGTNAT TCAAATTGTT ATGCACAGAA TGTTTTTGGT 180
 AATATTAATT TCCACTAAAA ANTTAANTGT NTTTTAAGGG ANNNGAN 227

(2) INFORMATION FOR SEQ ID NO: 4849:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 231
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05773

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4849:

GATCTAAATA TAAGAGCAAA AACCATAAAG CATCTAAAAG TAATTGAAGG AGAAAATCTT 60
 AGTGCCTTTT GTNCTGGCCA AGATTTTTTA AAGAGGACAT AGAAGTCAGG AACTATAAAA 120
 GAAACAATTT TAAATTTTNC TTTATCAAAA TAAAAGCCA TAGACCGGGA TAANNCATTT 180
 GCAANATATA TNTCTGACAA AGTTCTTGAN TCAAGANTAT GTAANANCNG N 231

(2) INFORMATION FOR SEQ ID NO: 4850:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 128
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05774

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4850:

GATCAGCCTG AACACATAA TAAGACCCTG TCTCAACAAA AAATACAAAA ATTAGCTGGG 60
 TGTGGTGGCA TATGCCTGTA GTCCAGCTA TTCAGGAAGC TCCATTGCAA TCTAGCCCGG 120
 GTGACAAA 128

(2) INFORMATION FOR SEQ ID NO: 4851:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 350

(B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05775
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4851:
 GATCCTTCCT TCAACCCCAA GGCCAGCTCC CATCTCATTT CCAGAAAGGC TCATACCTGG 60
 CTTGCAGGGA AGCATCTGTC TTGTCATTCC AGGTGCCAGA ATCCTCTCAG AGTCATTGAA 120
 GGGTGTTCAC CCATCCCACC CAAGGCTTGG CACACTGCCA GTNTCTTAGC AGGGTCTTGT 180
 GAGGGCTGGG GGCATCCAGG CACTCAGAAG GCAAAGGAAC CACCCTACCC ATTTGGCCTC 240
 TGGAGGGGGC AGAAGAAAGA AAGAAACCTC ATCCTATATT TTNCAAAGCA TGGGGGTTCT 300
 NGCATTTAGC TCTGGNGGGT GANCCANTGT GCTTNC'TTGN TTAAGTGTGN 350

(2) INFORMATION FOR SEQ ID NO: 4852:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 355
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05776
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4852:
 GATCTCAGTT TCCCTCACTC AGGAACTCTG TTTCTAAAGT CTTCAGTTAA GTTTNAGTTT 60
 ATNACTGAGT GGCCTGTACT GTCAGACGTG AATGGGCCTG ACGGGCAAAT CCATCCCTCT 120
 CTCCCTCACA GTTCCAGGAG CGGCTTCCCT CGTCTCCCCT TACTCCACAG GGAGCCTCCC 180
 TTGCCAGGAC CAGGGCTGCG ACGGCCATGC TGGGGCAGGT GAGTGCTCTG TTAGCTGCTC 240
 CCA GTGCTGT CCN CAGGCTG CAGTTCTGGT CCNNGGGGTG TNAGGGTAGG GAAGGGTGCA 300
 CTTGAAGGAN GGTGGTTCAA TTTTGGGNTN CCTTAACGTT TATAGTCTNN ACAAN 355

(2) INFORMATION FOR SEQ ID NO: 4853:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 81
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05777
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4853:
 GATCCAGGAG TTTAAGGTTA CAGTGAGCTA TGACCGCTAC TNACTCCAG CCCAGNCAAC 60
 AGAACAAGAC CCTGTTTCAA A 81

(2) INFORMATION FOR SEQ ID NO: 4854:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 136
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05778
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4854:
 GATCCTCCGT AACATTNCNA GACCAGANAG AACATCCAGA AATCCCTGGN TGGAAGCTCA 60
 GGCCCCGGGG CCTCCAGCGG CACCAGCGGA GACCACGGTN AGCTCGTCGT CCGGATTGCN 120
 ACGATTAAAG ACTGAN 136

(2) INFORMATION FOR SEQ ID NO: 4855:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 108
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05779
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4855:
 GATCAAATAT TTTTNATTAA CCTATATAAA GAATTTGACT GCTTATGATT CAATACATAT 60
 GATTTAATAA AATAGATTGC ATTTTNNAAA ATAAAGAATG ATTNGAAA 108

(2) INFORMATION FOR SEQ ID NO: 4856:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 362
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05780
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4856:
 GATCAACCTC TGATTTTACA TCATGATGTA ATCACCCTG GAGCTTCACT GTTACTAAAT 60
 NATTAATTC TTGCCTCCAG TGTTCTATCT CTGAGGCTGA GCATTATAAG AAAATNACCT 120
 CTGCTCCTTT NCATTGCAGA AAATTGCCAG GGGCTTATTT CAGAACAAC TCCACTTACT 180
 TNCCACTGGC TCTNAACTC TCTAATTAT ANGTTGTTGGT GAACCCNCAC CCAGGCAGTT 240
 ATCCATGAAA GNACAAGTGG ACTAGTNCTA TGNNGTACAA AGGCCTGTAT CNTCTTGTTG 300
 ATGGATTTC TGGTGCTCTT NGCTTGTTTG CAAGTTGCTT AANTTAAAGG CAGNTNTTTN 360
 TN 362

(2) INFORMATION FOR SEQ ID NO: 4857:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 102
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05781
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4857:
 GATCCTACCG GAAACCAACC TGTTTACTGT ACTGTTGTAA ATATCATGCC CTTTATATCC 60
 TGTATATTGG CTTCTTTTAA ATAAAGTGAA ATGTCTTAGA AA 102

(2) INFORMATION FOR SEQ ID NO: 4858:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 195
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05782

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4858:

```
GATCTAAACT TTATGCTGCA TAAATCACTT ATCGGAAATN CACATTTCAT AGTGTGAAGC 60
ACTCAANNTN TAAACCTTAT TATCTAAGGT AATATATGCA CCTTTCAGAA ATTTNTTTTC 120
GAGTAAGTAA AGCATATTAG AATAATTGTG GGTGACAGA TTTTAAAAT AGANTTTAGA 180
GTATTGGGG TTTN 195
```

(2) INFORMATION FOR SEQ ID NO: 4859:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 210
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05783

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4859:

```
GATCCCTTTG AAATNTTTT TTTGTTTGTT TGTTTAAATC AAGCCTGAGG CTGGTGAACA 60
GTAGCTACAC ACCCATATTG TGTGTTCTGT GAATGCTAGC TCTCTNGAAT TTGGATATTG 120
GTTATTTTTT ATAGAGTGTA AACCAAGTTT TATATTCTGC AATGCGANCA GGTACCTATC 180
TGTTTCTAAA TAAANCTGTT TACATTCAA 210
```

(2) INFORMATION FOR SEQ ID NO: 4860:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 139
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05784

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4860:

```
GATCTTTGTT TGTCTGAACA GGTATTTTAA TACATGCTTT TTGTAAACCA AAACTTTTA 60
AATTTCTTCA GGTTTTCTAA CATGCTTACC ACTGGGCTAC TGTAATGNG AAAAGNATAA 120
ANTTATTTAA TGTTTAAA 139
```

(2) INFORMATION FOR SEQ ID NO: 4861:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 150
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05785

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4861:

GATCCTGAAA GAATAATTGG TGCCACAGAC AGCAGTGGAG AATTGATGTT TCTCATGAAA 60
 TGGAAAGNTT CAGATGNGGC AGACTTGGTG CTGGCGAAAG AGGCAAATAT GANGTGTCTT 120
 CAAATTGTAA TTGCTTTTTT TGNNGNGNGN 150

(2) INFORMATION FOR SEQ ID NO: 4862:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 155
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05787

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4862:

GATCGCAGAT TTNTNTAGAA ACACGGATGT NCATGTCCAG ATTCCCTTTT NCAGGTATTA 60
 AAAATAATTA AAAATAGTCC TGCCTGAGGT TGCAGTGAGC CGAGCTTGCA CTAATGCACT 120
 CCAGCCTGGG TGACAGAGTA AGACTCCATG TCAAA 155

(2) INFORMATION FOR SEQ ID NO: 4863:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 262
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05789

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4863:

GATCTGTACA ACTGATTTTA AAAAAATGCT ACAAAAAGCC CCAAAGCATA TAATCTCTAC 60
 TCCTTACAGT CTCTAGAATT AAATGTACTC ATTTAGACAA CATATTAAAT GCATATTTNA 120
 GCCACTTTAG AGAAACCTCA TAGGCACAGA GTTTCCAAGN TTAATTTTAA GNATATCTTC 180
 ACGAACTTGA CCCTCCTACT CCACATTGCA NCATTTCCNT CAGNCAGCAT TTNAATTCCN 240
 GTATTATGTN TNTNGCAANT NN 262

(2) INFORMATION FOR SEQ ID NO: 4864:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 232
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05790

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4864:

GATCAAGAAG GCCACTGGTG TGCAGGTGTN AGGCTCCTAC AGGCCCACTC TCTTCAGCAG 60
 CCACCCGGCC CTCCCTCCAG CACCCGTTTT AATCCACAG AACACGGGA ACGTTACTGA 120

CTCTGGTGCC TTATCTCGAA GGGACCAGAA GTGCTGCGTG TTCAGGCCAT CNNTGGCTGT 180
 NTTCTGTCT CTCCTGTCTG TCCACCTACT ACTNNNTNCT NTACTTTANC NN 232

(2) INFORMATION FOR SEQ ID NO: 4865:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 76
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05792

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4865:

GATCAGAGCC GACACCAGAC GTGATTAGCA GGCGCACAA ATTCAATTG TTAAATGAAA 60
 TTGTATTTTG CCCAAA 76

(2) INFORMATION FOR SEQ ID NO: 4866:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 80
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05793

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4866:

GATCTCTTGG GCCCAGGACT GTTGATGCCT TTNAGTTTTG TATTCAATAA ACTTTTTTTG 60
 TCTGTTGATA ATATTTTAAA 80

(2) INFORMATION FOR SEQ ID NO: 4867:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 149
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05794

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4867:

GATCCATGCA TTATTTTCCT AGCTTCCTGC CTTGCTCCCT ATTCACCTTA CACTGTGAAA 60
 GGTGGGGGGT GAGTCCCACT TGAGCGCTTC CTGTTGAATA AAGCAGGCAC TTGACCTGGC 120
 TGTAGCCTAG GTCTTGAGTG AACCCCAA 149

(2) INFORMATION FOR SEQ ID NO: 4868:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 209
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05795

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4868:

GATCATGTCT GTACATTGTG TAATGAATGA AAAGCACATA AATNTAATCT ACTTTGAACT 60
 TTGTAAAAAT AATGTGTGGA GGCTATTCTT GTTTCTCCAT CTCAAGTCCT GTGTGTGCAC 120
 GTGTGTGCAA GTGCACATGT GTGTGTGTAA TAACACATTG TAAAGANCAG AAATNACTTT 180
 AAAAAATAAA CAGAAATGGA GACCTGAAA 209

(2) INFORMATION FOR SEQ ID NO: 4869:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 335
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05796

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4869:

GATCCGNCCA CCTTGACCTC TCAAAGTGCT GGGATTACAG GCATGAGCCA TCACGCCCCGG 60
 CCACGCTGTT GGTTCCTAAT GACACAGCTT ANCTTTATTG TGAAAAGATT GCAGCAACAA 120
 ATGAGATTTT ACCTGTATTT GTTAAAAATG CTTATCCTTG TCTAAGACTG GCAACATAAG 180
 CAGTTCTTNG GCTTCTATGC CAATGGNCAC TAGGCAGTAA TACATGTGCA GTGCTANATA 240
 GAAAATATTG GAGTNAGGGT GTACTNAGGG AAGTTCTCAA TCTTTNCCCT NTCANTNTCT 300
 TCTGTAATAG TAACCTTNA TAACATGNNG ATTCN 335

(2) INFORMATION FOR SEQ ID NO: 4870:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 207
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05797

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4870:

GATCTTTCTG CAGGAAATAG TCACTCATCC CACTCCACAT AAGGGGTTTA GTAAGAGAAG 60
 TCTGTCTGTC TGATGATGGA TAGGGGGCAA ATCTTTTCC CTTTCTGTT AATAGTCATC 120
 ACATTTCTAT GCCAAACAGG AACAATCCAT AACTTTAGTC TTAATGTACA CATTGCATTT 180
 TGATAAAATT AATTTTGTG TTTCAA 207

(2) INFORMATION FOR SEQ ID NO: 4871:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 208
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05798

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4871:

GATCTGTCAC GGAAGGCGTC CTTTTTCCTT GTAGCTAACG TTAGGCCTGA GTAGCTCCCC 60

TCCATCCTTG TAGACGCTNC AGTCCCTACT ACTGTGACGG CATTTCATC CCTCCCCTGC 120
 CCGGAAGGG ACCTTQAGG GACCTCTCCC TCCAAAAA GAAAAAAGA AAAAGANAGA 180
 AAAANTAAAT GAGGAAACGT GTTNCAAA 208

(2) INFORMATION FOR SEQ ID NO: 4872:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 84
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05799

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4872:

GATCAGACCA TAATGTTACA TTATTATCAA CAATAGTGAT TGATAGAGTG TTATCAGTCA 60
 TAACTAAATA AAGCTTGCAA CAAA 84

(2) INFORMATION FOR SEQ ID NO: 4873:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 337
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05801

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4873:

GATCCTGGCC GAGGTGAGGA ACAGACAGGG GGGGTCTAGA TTCTAAGGGG GTTGGTGGAT 60
 ATTGGGCAAG GCAGGAAACC TCTGGAGACC TCATTTTCTC CATGGGGAAG ACAGCCATGC 120
 TCTTCAGGAG GAGACTCCAA GGGCAAAGNA GGGTGTCTTG GCTGTNCTTG AAGGCGAAAC 180
 CCTGCCATAT CCCAGTGCC AGTCCCCTCA GNCTGTGGTG GCCTTGCATC CTGACTGGAT 240
 GTTCTCAGCC CNTTGTCTTG GGCAAGAACC CAGAGCTCCC CAGTNTGGAT ACTTATTAAA 300
 CCTNTTTGGA GNCNCAAATA NAAAAAANA AANNAGN 337

(2) INFORMATION FOR SEQ ID NO: 4874:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 329
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05804

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4874:

GATCCAGGGG CTGATTGGCA GCGTGGAGGA GCAGCTGGCC CAGCTTCGCT GCGAGATGGA 60
 GCAGCAGAAC CAGGAATACA AAATCCTGCT GGATGTGAAG ACGCGGCTGG AGCAGGAGAT 120
 TGCCACCTAC CGCCGGCTGC TGGAGGGAGA GGATGCCAC CTGANTCAGT ACAAGAAAGA 180
 ACCGGTGACC ACCCGTNAAG TGCGTACCAT TGTGGGAAGA GGTCCAGGAT GGNAAAGGTN 240
 AATCTTCTTC CGTGNAGCAN GGTNCAACCA GACCAACCGT TTGAGGGACT TANGTTACCN 300
 NGNGCCGGGC CAACCNAAGG AGGGNNTTN 329

(2) INFORMATION FOR SEQ ID NO: 4875:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 142
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05807

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4875:

```
GATCACTTGC TTTTATGTCC ACTTTTNNAG TGGTACTTAA ATGTAAAGTA ACAACCTGAA 60
TTGAGTCATT GCTTTCTGAA GGAATCATTG TCCTTCTCC AGTTTTTGTN CCAGAATAAA 120
AGGAAATATT TTAAAGCCA AA 142
```

(2) INFORMATION FOR SEQ ID NO: 4876:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 331
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05808

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4876:

```
GATCCTNCAG CACAGGAATT CTCAAGACCT GAGTATTTTT AATAATAGGA ATGTCCACCA 60
TGAAGTTNAT ACGTCCGTGT GTCCCAGATG CTGTCATTAG TCTATATGGT TCTCCAAGAA 120
ACTGAATGAA TCCATTGGAG NAGCGGTGGG GNACTAGCCA GACAAAATTT NAGANTACAT 180
AANCAACGCA TTGCCACGGN AACATACAGN GGATGCCTTT TCTGTGATTG GGTGGGATTT 240
TTTCCCTTTT TATGTGGGAT ATAGTNGTTA CTTGTGACAN GTATAATTTT GGAATAATTN 300
CTATTAAATA TCANCTCTGA NGNTACTNGT N 331
```

(2) INFORMATION FOR SEQ ID NO: 4877:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 61
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05810

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4877:

```
GATCATGCCA TTGCACCCCA GCCTGGGCAA CAACTTAACT TTTTGAAC TCTGTCTCAA 60
A 61
```

(2) INFORMATION FOR SEQ ID NO: 4878:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 81
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05813

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4878:

GATCCTCTGG ACACGTAACC TATGTCAGNC ACTACATGAT GACTCAAGGC CAATAATAAN 60

GCCATTTCTT ACCTGCACAA A 81

(2) INFORMATION FOR SEQ ID NO: 4879:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 102

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05814

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4879:

GATCCANAGA GGACCCCCGN CCCAGAGAC TTGGTTTTGG CTCCAGCCTT CCCCTGGCCC 60

CGTGACACTC AGGAGTTAAT AAATGCCTTG GAGGAAAACA AA 102

(2) INFORMATION FOR SEQ ID NO: 4880:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 66

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05815

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4880:

GATCAAAAGG TCTCAGATGA TGATAAAGAA AAGGGAGAGG GAGCTCTTCC AACTGGGAAA 60

TCCAAA 66

(2) INFORMATION FOR SEQ ID NO: 4881:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 287

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05816

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4881:

GATCTCTAGA GTCCATTAAA AGCAAGCTAG ATTGAGAGCT CTTGGAGGGC AGGGACTGGG 60

CCTAGCTCAT GGTTTACAGC TCTTGAGGGT GACTGCACAG TGGACTCAGT CAGTCATGGC 120

TGAGTTGTGT TGGCTTNATT ATCTCTAGAA TGTAGTTCTC CATTCAAATG CAAATCAGCC 180

TGGNNGGNTC ACCTGTAGTA AAGGGGGTTT CTACCTNGNG GATGGAAANA GNNNTCTTAG 240

GNACCTTCCT TGGGCCTCCA GNACTTATTT TNGATATCCC NTTATGN 287

(2) INFORMATION FOR SEQ ID NO: 4882:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 74
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05817
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4882:
 GATCATACCA TTGCACTCCA GCCTGAGTGA CCTGACTGAG ACTGTCTCAA AAAGNGTAAA 60
 ANATAAAAAAT TAAA 74

(2) INFORMATION FOR SEQ ID NO: 4883:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 106
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05818
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4883:
 GATCTNACTC CAGCAGAGTC TGTNCCAATN TGGGGTGAGC AGGGCCCCTG CCATGGAGCA 60
 GCAGGAATTT NAGGGATGGA GCAGGTAA GAATGGGAAA CATAAA 106

(2) INFORMATION FOR SEQ ID NO: 4884:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 96
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05819
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4884:
 GATCTTAGTG GTGAAAGTAT GTGTAACCAT GTGATGGTTA AAACANGACT TACAATNCCT 60
 AAATGTGTAA CTGAGAATAA AACGTACTCT NTTAAA 96

(2) INFORMATION FOR SEQ ID NO: 4885:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 63
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05820
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4885:
 GATCCNAAGN CTCCGGGCAG CCGTTATCCC GTGGTTTAAT AAAGCTNCCG CGCGCTCACC 60
 AAA 63

(2) INFORMATION FOR SEQ ID NO: 4886:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 61
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05821

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4886:

GATCCTGCTG TGTGTCCTGT TCCATGTTCC GGTTCATCC AAATACACTT TCTGGAACAA 60
A 61

(2) INFORMATION FOR SEQ ID NO: 4887:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 274
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05823

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4887:

GATCTCCTTG TCAGGAGCAC CTAAGAACTG GCATGACTCT ACACCCTNTC TCCTTCTNCA 60
ATGACCTCGT GTCAAGATGG CAGACCTGCA GAGATGAATT TGCCTNGATA CCTGAGTCAC 120
CAGNGNGGAG GAAACTCCCA TTNGACATGC ATCACTACTCC ACATATGAAA CCTNCTTTT 180
GCTGCACTGT CACTGGGGGN TAGGGGTTAT TACTCACTGC AACTTAGCCT AGCATTAAGT 240
TGNTTTGACT NATNCANGTT TCAGTAAANG TCGN 274

(2) INFORMATION FOR SEQ ID NO: 4888:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 268
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05824

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4888:

GATCTGTGTT GGTTTCTTAG ATTGCTAGCT TTTCTCCAG GGGACCACAG CAGGTGAAGC 60
TCAAGAGCGC ATGGCTCTGC TAATAGTAAA TTGTTTTTCAG GGCCTTGTC AGCTGAGAGC 120
TTCATGTCCA CCAGATTCTG AGAGGTGTCA GCAGCACTTT TTTTTTNATT TGTNGTTNGG 180
TTTCCNCCCG GTTATCGGAC CATGGGCTNA GCTCAGGCAC TTGCTGTAGG AGACTNGNNA 240
TTNCTGTAAA GGANNGGTNA TTTANCCN 268

(2) INFORMATION FOR SEQ ID NO: 4889:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 323
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05825

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4889:

GATCAAACTT GGTCTGGGTA TTGATGAAGA TGACCCTACT GCTGATGATA CCAGTGCTGC 60
 TGTAAGTGAA GAAATGCCAC CCCTTGAAGG AGATGACGAC ACATCACGCA TGGAAGAAGT 120
 AGACTAATCT CTGGCTGAGG GATGACTTAC CTGTTCAGTA CTCTACAATT CCTCTGATAA 180
 TATATTTTCA AGGNTGTTTT TCTTTATTTT TGTNAATATT AAAAAAGTCTG TATGGCATGA 240
 CAACTACTTT AAGGGGAAGA TAAGATTTTC TGTCTACTAA AGTGATGCTG TGGTACCTTA 300
 GGCCTNAAG CAGNGCTAGT ATN 323

(2) INFORMATION FOR SEQ ID NO: 4890:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 66
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05826

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4890:

GATCTAAGAG TATGGCTAAA CATCTATATA TGCAATCTAT TAAAAGAACT TAATTCGGCT 60
 ATTAAA 66

(2) INFORMATION FOR SEQ ID NO: 4891:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 89
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05827

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4891:

GATCTCTGGA GCTCAAGAGG TTGAGGCTGC AGTGAGCCGA TGTGCCAGTA CACTGCAGCN 60
 TNGGTGACAG AGCAAGACCC TGTCTCAA 89

(2) INFORMATION FOR SEQ ID NO: 4892:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 344
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05829

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4892:

GATCGCCACT TACCGCAAGC TGCTGGAGGG CGAGGAATGC AGACTCAGTG GAGAAGGAGT 60
 TGGACCAGTC AACATCTCTN TTGTCACAAG CAGTGTTCCT TCTGGATATG GCAGTGGCAG 120
 TGGCTATGGC GGTGGCCTCG GTGGAGGTCT TGGCGNCGGC CTCGGTGGAG GNCTTGCCGG 180

AGGTAGCAGT GGAAGCTACT ACTCCAGCAG CAGTGGGGGT NTCGGCCTAG TNNNNNGGGC 240
 TCAGTGTGGG GTGCTGTTGG CTTCACTGCA AGCAGTAGCC NGAGGGCTGG GGGTGGNCTT 300
 NTGGCANTGG CGGNTNTAGC AGNTCCAGCG TCAAATTTN CTCN 344

(2) INFORMATION FOR SEQ ID NO: 4893:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 342
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05830

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4893:

GATCAGGNAG CCTCCTGATG CCAGAACACC TNAGGCAGAG CCCTACTCAG CTGTACCTGT 60
 CTGCCTGGAC TGTCCCCTGT CCCCGCATCT CCCCTGGGAC CANCTGGAGG GCCACATGCA 120
 CACACAGCCT AGCTGCCCCC AGGGAGCTCT GCTGCCCTTG NTGGCCCTGC CCTTCCACA 180
 GGTGAGCAGG GCTCCTGTCC ACCAGNACAC TNAGTTCTNT TCCCTGCAGT GTTTTCATTT 240
 TATNGGGGNC AAACATTTTG CCTGTTTTCT GGTTCAAAC ATGATAGTTG ATATGAGACT 300
 GAAANCCCTG GGTGTGGAG GGGAAATTGG GNTNAGAGGG GN 342

(2) INFORMATION FOR SEQ ID NO: 4894:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 138
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05831

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4894:

GATCCTGGAC TTNCCCCTCA GCAAAGATGC CTCNTGGTG GTGACCACGT CAGGAGACCA 60
 CAAAGCGAAA NTNTTNTTTT TCCAAAGGCC TGACCGTTAA TGGCTGCAGC CCCTGCCTGT 120
 TTGTNTGGTG TTGAGGGN 138

(2) INFORMATION FOR SEQ ID NO: 4895:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 109
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05832

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4895:

GATCCACCCG CCTCAGCCTC CCAAAGTGCT GGGATTACAG GTGGGAGCCA CAACACCCGG 60
 CCATGAATTA ACTCCGTAA AAAATAAACG TATACATTCT GTGAGCAA 109

(2) INFORMATION FOR SEQ ID NO: 4896:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 274

(B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05833
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4896:
 GATCGGTTTC GCCATCATGA CGCAGTGTCT CCCAGTGGCC CTGTTCTCCC TGGTGGGCTT 60
 CACCCAGATG ACCATNTGGG CCAAGGGCAA GCACCGCAGC TACCTGAAGG AGTTCCGGGA 120
 CTACCCGCCC CTGCGCATGC CCATNATNCC CTTCTGCTC TGAGCGCTCA CCCCTGCTGA 180
 GGCTCAGCCC CTNAACCCGG TGGCATTCTG GGGGAGGAGT GGGGCCCA GNTCTCCAGC 240
 ACCCGGAATA AAGCCCGNCT GCCCCAGTCG GAAA 274

(2) INFORMATION FOR SEQ ID NO: 4897:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 343
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05834
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4897:
 GATCTTGCTG GATGTGAAGA CGCGGCTGGA GCAGGAGATT GCCACCTACC GCCGCCTGCT 60
 GGAGGGCGAG GATGCCCACC TTTCTCCCA GCAAGCATCT GGCCAATCCT ATTCTTCCCG 120
 CGAGGTCTTC ACCTCCTCCT CGTCCTCTTC GAGCCGTCAG ACCCGGCCCA TCCTCAAGGA 180
 GCAGAGCTCA TCCAGCTTNA GCCAGGGCCA GAGCTCCTAG AACTGAGCTG CCTCTACCAN 240
 AGCCTNCTGC CCACCAGCTG GCCTCACCTC CTGAAGGNCC GGGTCAGGAC CCTGCTCTNC 300
 TGGNGNAGTT TCCCAGGTAT NTTNNTGGT TCCTGTTGGT GAN 343

(2) INFORMATION FOR SEQ ID NO: 4898:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 338
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05835
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4898:
 GATCAGNAGC CCCCACACA GGCAAGTCCA CCCATAATA ACCCTGCCAG TGCCAGGGTG 60
 GGCTGGGGAC TCTGGCACAG TGATGCCGGG CGCCAGGACA GCAGCACTCC CGCTGCACAC 120
 AGACGGCCTA GGGGTGGCGC TCAGACCCCA CCNTACGCTC ATCTCTGGAN GGGGCAGCCC 180
 TGAGTGGTCA CTGGTCAGGG CAGTGGCCAA GCCTGCTGTG TCCTTCTNC ACAAGGTCCC 240
 CCCACCGTTC AGTGTACGCG GGTGACGTGT GTTCTTTTGA GTCCTGTAT GANTAAAAGN 300
 CTGGAACCTN ANAAAAAGTG NGNNGNGGTN TNTGNTAN 338

(2) INFORMATION FOR SEQ ID NO: 4899:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 356
 (B) TYPE: nucleic acid

(C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05836
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4899:
 GATCAGCCCC TGA CTTTNTT AAAAGATATC AGAAGTGTCT TGGAGCCAAC TAGAGGCAGG 60
 GTCATCCTTG CCCTTNTCCT CCCCTTTCAT CCCTATGTGG AAAACGTAGG TGGCAAGTGG 120
 GAGAAACCAT CAGAAATTTT GGAAATCAAA GGACAGAACT GGGAAGANCA AGTGAATAGT 180
 CTGCCTGANG TTTTCAGAAA ANCTGGTTTT NTTATCGAAG CTTTCACCAG ACTACCATAC 240
 CTGTNTGAAG GCGACATGTN TAANGNCTAC TNCGTTCTGG NTGACGCTNT CTTTGTCTC 300
 AANCCAGTAT AAACACGTGG NGGTCGAAGT CTTCAGAGTC CGTACCNTNC TGGATN 356

(2) INFORMATION FOR SEQ ID NO: 4900:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 111
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05837
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4900:
 GATCCCCCAG AAAAGAAAGC TACAGAAGAA ACTGGGGCTC CTCCAGGGTG GCAGCAACAA 60
 TAAATAGACA CGCACGGCAG CCACAGCTTG GGTGTGTGTT CATCCTTGAA A 111

(2) INFORMATION FOR SEQ ID NO: 4901:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 293
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05838
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4901:
 GATCTTAATG GGTTCGATGG TAGGGAATAC GGAAAGGATA CACTGCTAAT ATTGTGTCTA 60
 ACAATAAAGC AAACAACCTCG ATGCTGTAAG AAGACAAGCT GTTTGAGCTT TCAAACACAC 120
 AGGGGCACAG CACAATTCAG AAATACCCAG GAGGATTCCT GCAGGCTTAA CAGTTGGCAT 180
 CGTACTGAAA TGAAACGTGT ATTAACANGA AANTGTCAAA CTTTTGGGGA AACAAATTTT 240
 CTGTTACTTC CCACCCNACT AAAAGGGAAG ATAAAACCAT CATCACCAGN NNN 293

(2) INFORMATION FOR SEQ ID NO: 4902:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 99
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05839
 (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4902:

GATCTACATA AGGAAAGGAA GAATATTAAA GAAGAAATAA ATGAAGACGA GATAAAATCT 60
TTTTTCTTAA TTATCAAATA AAAGTTTGTT AAAAGTAAA 99

(2) INFORMATION FOR SEQ ID NO: 4903:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 290
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05840

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4903:

GATCAGGCAG TTCCTGGACT GTTCCACCAC TCAGAGTGAC CTGTCCCTGT GTGAGGGCTT 60
CAGCGAGGCC CTGAAGCAGT GCAAGTACTA CCATGGTCTG AGCTCCCTGC CCTGAAGAGG 120
TCGGTGCAGA CTCGGGGGCC AGTCCTGCAC NCACNTCTAC CCCTCGCCGA CAGCCAGACC 180
ACAACACCAG ATTGTACCCA GATAGCTGGG ATTGGAAGTN AGGAGGTTTC TCACCCACACA 240
GATAACCCAA GACACAAATG TGCAATTAAA AGTTTATTTT AGACCACAAA 290

(2) INFORMATION FOR SEQ ID NO: 4904:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 68
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05841

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4904:

GATCTGCCCC CTTGGCCTC CCAAAGTGCT GNGATTNCAG GCATGAGGCG CTGCATCAGT 60
TCTGCAAA 68

(2) INFORMATION FOR SEQ ID NO: 4905:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 223
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05842

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4905:

GATCTGCAAG CNGGAGCCCT CCTACCCGCA GCTTNAGCAC AGNATCATCC AGCCCTGGGG 60
AGGCGCACCC TTAAGCAATA CAGACTGGGC TGAGGCTGAC AGGCAGAAGA CTAACAGAGC 120
GCANTCTGCA CACGCAGGTT CTGGGGCGAC CTCTGGCCCT GGNCATCTCT GNACTAACTN 180
ATCTGAATTA TGGAAGGTGG CAGTNTTGGT CANTAGTTTT NNN 223

(2) INFORMATION FOR SEQ ID NO: 4906:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 293
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05843
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4906:
 GATCCGTC CG CTCGGCCTC CCAAAGTGCT GGGATTACAG TCGTGAGCAC CGCGCCCGGN 60
 CTGNGGTCAA TTTTCTATGT CAAGTGAGTG ACATTATTTT TACAAGTATT TTCTTCTTTT 120
 TAAAATTATA CCAGCAAATA CAGTTAATGC AGAAACCTAA GTAATTTGAG TG TAGCTATT 180
 CACAATCTAT GTGAAGNNNN CAAAATAGAA TGACCAGTTT TATTATAAAT TAAGGGGCTT 240
 AATTTTCTAA AAAAGNANAN AANTGAGCCN TATCTCTGTG TTTTATAATT ATN 293

(2) INFORMATION FOR SEQ ID NO: 4907:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 65
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05844
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4907:
 GATCACTTGA GGCCAAGTAT TTAAAACCAG CCTGGGAAAT ACAGTGAGAC CTTNTNTCTA 60
 CCAA 65

(2) INFORMATION FOR SEQ ID NO: 4908:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 225
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05845
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4908:
 GATCCTGAAG GCCTTCGAGT ATTTTACTAT TTGGTACAAG ACTTGAAATG TTTNGTNTTC 60
 AGTCTTATTG GATTACACTT CAAGATTAA CCAATTTAAA TTGTATGTNT TCAGGCTGTT 120
 TGTATATTN ATTAAGGGAT GGGAGGGGTT ATTTGTCATT TACAGTATTG GGGTTTTNAT 180
 GAATGTGAAG CAAACAANAN ANATTTGTNT GTAAACTGTT TTNTN 225

(2) INFORMATION FOR SEQ ID NO: 4909:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 135
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05846
 (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4909:

```
GATCAGGTTG GGGGGCAGCC CCCAGTCCCT TTCTGTCCCA GCTCAGTTTT CCAAAAGACA 60
CTGACATGTA ATTCTTCTCT ATTGTAAGGT TTCCATTTAG TTTGCTTCCG ATGATTAAAT 120
CTAAGTCATT TGAAA 135
```

(2) INFORMATION FOR SEQ ID NO: 4910:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 225
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05847

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4910:

```
GATCCAGTAT TTGATGAAAC TCATGAAAGT GGGTGGAGCC CATCTNGCCC CTCCTCTTTT 60
CTAGGACGCA CTATATGTGA CTGTGACTTT CAAGGACATT TGTTTGCCAT TTGCTGATTT 120
TTTTGGGAAG TNAATTNCTA ACTNCTTTCA CTGATAAATG NAGAAAAGTA TTGCACCNGT 180
GAAATGCACC AAATGAATNG NGTTTTGTAA TTAAAAAAN NTNTN 225
```

(2) INFORMATION FOR SEQ ID NO: 4911:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 281
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05848

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4911:

```
GATCCCCTAA GGTCTTGGCC CAGGNCTGCC CAAAGAGAAG CCCAGGATGG TCGGCTGCCT 60
GGGGGCATTG TCACCACGTN GCCATGACGG CTGGTCCCNA CAGGNCCAGC TGGGAGGACT 120
GGTTGTGCTG CTGGAGAAGG GCTGGAGAAG GCAATGGCAT GCTGCCGCTT TGCCAGTCCC 180
TAGAAGTCGC GGTGCAGGTG ATGTGTNGNG AGCCGTNCCT NCANTGGGCA GGCCNGGGAG 240
TNTACTTGTG TGCAGCTGAC CCAAGGGCAG CCACATNTNN N 281
```

(2) INFORMATION FOR SEQ ID NO: 4912:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 179
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05849

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4912:

```
GATCAAAACC CAGCAGAGTG CAAGCAGCAG TGAAGCAGGA TGTATGTGGC CTTGAGGATA 60
ACCTGCACTG GTCTACCTTC TGCTTCCCTG GAAAGGATGG ANTTTACATC ATTTGGGCAA 120
GGCCTATTTT CAAGGTTTNT TTGGTNTGNT TGGNTNGCTT GTTTTTGGNT TTTGGCAGN 179
```

(2) INFORMATION FOR SEQ ID NO: 4913:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 313
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05850

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4913:

```

GATCGAGGGC TGGGNACCCC GGTGTNAGCA GGATGGGGCC CTGCCCTCCC GTGGNAGTTG 60
TGGACTCGAG CCCAGGGGCT GCCCGTAACA GCGGTGTCCC AGGTCCCTGC CATCCNATTT 120
TACCTGGAAT GTCTTCTCTG GAGTTTGGAA TTGCTTGAGG AACCTGCGT GTGCTTGAG 180
AGGCCAGAGG GCTTGCTGAG AACCCCATGG ACAGTGGAGA GCGGGATTCG AACCAAGGGC 240
TGGACTCCCA CACCTNTGGC CTGCGTCGCC CAGTTCTTTG TGGCTCTGAA GAATTGNCG 300
CTGTGGAAAA GTN 313

```

(2) INFORMATION FOR SEQ ID NO: 4914:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 124
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05851

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4914:

```

GATCTTATGT GTTACAAAAT TGGAGAAAGT ATTTAATAAA ACCTGTTAAT TTTTATACTG 60
ACAATAAAAA TGTTTCTACA GATATTAATG TTAACAAGAC AAAATAAATG TCACGCAACT 120
TAAA 124

```

(2) INFORMATION FOR SEQ ID NO: 4915:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 313
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05852

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4915:

```

GATCCCCTGA ATGCCTTTGG AGGCCAGTAG AGCACACAGG GTATCCACAT GTTACCCTGC 60
AGCTACATTG TTGAGTTAGT GATGATATTG TATATGCTCA TGGTCTNAAC TGGATTACAA 120
AAAGCAAATA CTAGAACAGC TAGCTCATCT TTNACCCAAT GTACTTAGTA TTTTCNTGCA 180
CTGGTTTAAT CATGNTTAAT ACTACAAANC AAAANTAANT ATTTACACAGT GGTGGNTT 240
TNTTGTNTT AANCCACAGT TNGANTTAGT TAGCCTTGCT GGGGCCATAA TATGCTTCAG 300
GGTGTGTAAN TGN 313

```

(2) INFORMATION FOR SEQ ID NO: 4916:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 312

- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS05854
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4916:

```
GATCTGGGGA CTACCAGAGA CTCTGGGAAA TGGACAAGGT GGGGGGCCCC ACTCTTTCTC 60
TCCTGCAGTC CCGTAGCTGG GGCCTCCTTC CTTCTCAGGG TCTCCCAGC CCAGTCCCCT 120
TGCTCCCATC CCACTCGGTG CTGTTGGGTA GGGGCCCTGC CAGGAAGTGA CCAGCTNAGC 180
GAGGAGCCAT AATGTGCATA TGTGCACAAG CAGGGTTTGG GGAGGGGGNT GTGAGGGGNT 240
GTGCCCAGGT GTTGCCCCCT ATCTCCTGGG GAGGGTGAGG NAGGGCAGGG ACAGTNTCCA 300
GGGGTNAATT TN 312
```

(2) INFORMATION FOR SEQ ID NO: 4917:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 55
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS05856
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4917:

```
GATCTAAATA TTCTGGTTTG GATTAGGCAA TTAAATTTT TTTGGCAACA GGAAA 55
```

(2) INFORMATION FOR SEQ ID NO: 4918:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 370
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS05857
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4918:

```
GATCCAAGGA NCGTTTGGNT TTTCTAGCT ACATCTGGTA CCTTGGCTGG CATTATGGGA 60
ATNAGGTTCT ACCACTCTGG AAAATTCATG CCTGCAGGTT TAATTGCAGG TGCCAGTTTG 120
CTGATGGTCG CCAAAGTTGG AGTTAGTATG TTCAACAGAC CCCATTAGCA GAAGTCATGT 180
TCCAGCTTAG ACTGATGAAG AATTAAAAAT CTGCATCTTC CACTATTTTC AATATATTAN 240
GAGAAATAAG TGCAGCATTT TTNCATCTGN CATTTTACCT AAAAAAAG ACACCAAANC 300
TTGGCAGAGA GGTGGGAAAA TCAGTCATGT TTTACCAANC CTANCNGAGG TTGGCGTGTT 360
TTGTTACCTN 370
```

(2) INFORMATION FOR SEQ ID NO: 4919:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 168
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05858
- (ix) FEATURE:
- (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4919:
- ```
GATCTTGAAA GGAAGTATGC TGTCTCTAT CAGCCTCTAT TTGATAAGCG ATTTGAAATT 60
ATTAATGCAA TTTATGAACC TACGGAAGAA GAATGTGAAT GGAAACCAGA TGAAGAAGAT 120
GAGATTCGG AGGAATTGAA AGAAAAGGCC AAGATTGAAG ATGAGAAA 168
```
- (2) INFORMATION FOR SEQ ID NO: 4920:
- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 128
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
- (B) CLONE: HUMGS05859
- (ix) FEATURE:
- (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4920:
- ```
GATCATGGGA GGGAGCTGAG GGGTTAATAT ATATACATAC ATACACATAT ATATATTTNN 60
GTAAATAAAC AGGAAGTAT TTNCTGCCTC CATCCCACCC ATGAGGGCTG CAGGNACTAC 120
AAGAGAAA 128
```
- (2) INFORMATION FOR SEQ ID NO: 4921:
- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 166
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
- (B) CLONE: HUMGS05860
- (ix) FEATURE:
- (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4921:
- ```
GATCGGGTCC CCAGAGCCAC CATCTCCTGA GCCTCCCACC CCGCTGCCTG GGCCCTGTGG 60
TTGCTGGGCC TCCCACCTCA AGGAGGGGAA GGTGTACAG CCCGAACCCG TGGAGCAATG 120
CCCTGTNTGG NCTCCAAAAC CAAAATAAAA CTGGTGTAC TTTAAA 166
```
- (2) INFORMATION FOR SEQ ID NO: 4922:
- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 97
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
- (B) CLONE: HUMGS05862
- (ix) FEATURE:
- (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4922:
- ```
GATCTTTAAA CTGCTTTATA CACTGTCACG TGGCTTCATC AGNTGTGTGC ATTTCAGGAT 60
GGTTTTTAAA GNAACCTCAG AAAGNTATTT CCTTAAA 97
```
- (2) INFORMATION FOR SEQ ID NO: 4923:
- (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 211
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05863
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4923:
 GATCACAGAA AAATTAAAAA TCCAAGTGCT CTCTAGATTT GTTGATAAAC ATTTTATGCT 60
 TGCATTTAAA CTTGAAATGT ATGAGCAGAA TGAGACAATC AGTTAAATCA GAAATGAGAA 120
 GTATTATAAT GTAAAGGCCT TGTTTTGCTG TAGCAATANN ATGACCAAGT GCAATGACTT 180
 GATTTAATAA AATCATATNT TAAAAGTTAA A 211

(2) INFORMATION FOR SEQ ID NO: 4924:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 338
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05864
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4924:
 GATCAACGCC TCACTGAAAC ATGGCTGTGT TTGCAGCCTG CTCTAGTGGG ACAGCCCAGA 60
 GCCTGGCTGC CCATCATNTG GCCCCACCCA ATCAAGGGAA GAAGGAGGAA TGCTGGACTG 120
 GAGGCCCTG GAGCCAGATG GCAAGAGGGT GACAGCTTGC TTTCTGTGT GTACTCTGTC 180
 CAGTTCTTTT AGAAAAATG GATGCCCAGA GGACTCCCAA CCCTTGGCTT GGGGTCAANG 240
 AAACAGCCAG CAAGGNGTTA GGGGNCTTAG GGCATTGGG CTTGTTTGT CCCATTGAA 300
 NGGCGGNCTT NTGGGCCCTG GGCCCTTNAG GTTTGGTN 338

(2) INFORMATION FOR SEQ ID NO: 4925:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 259
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05865
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4925:
 GATCCTGTCT TCTTTCATGT TTAACGAG GCATGACATT CATGGCAAAA CAGGGATGCC 60
 GTTTCCAAGA GCAGCTATAA AACAATCTGT TTTCTAAAG ACAGCCACTC TGAGAAGGNG 120
 ATGANGGAAC ACGGCAGGGT TCATCANTTC ATAGACTGTT TCCAAAAATA ATTTTAAAC 180
 TTTTCCACTA GGCATCTGTG TCTTTAACCA CTGCACANTG GCNTTGCCTG TTTAATANAA 240
 GGTNNTCANN ACGTGAAA 259

(2) INFORMATION FOR SEQ ID NO: 4926:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 195
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05866

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4926:

```
GATCCACCCA CCTCGGCCTC CCAAAGTTTT GGGATTACAG GCACGAGCCA CAGTGCCAGC 60
TGAAAACGTT TCCTAAACAG AAGTGCGCAG AGCATGATGG AGCCCAGCCT GGGCTTGACA 120
TTTGGAGAGA ACTACAGAGA AGTATCCAGA CTGTTGTAC TAATAAATAA ATACATAAGC 180
TCCGCTGNAC GGAAA 195
```

(2) INFORMATION FOR SEQ ID NO: 4927:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 56

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05867

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4927:

```
GATCCAACAA TAAATATTA ATTTATAAAA AAGAAATTTT AAAAAGTAAC AAGAAA 56
```

(2) INFORMATION FOR SEQ ID NO: 4928:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 82

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05868

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4928:

```
GATCATCCTC CAAGCAGTCC TGTTCAATCA TGTCTGCCTC AAATTGCTGG TGAATACATA 60
AAATAGTTAC TTGCTAATCA AA 82
```

(2) INFORMATION FOR SEQ ID NO: 4929:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 286

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05869

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4929:

```
GATCCACCCG CCTCAGCCTC CCAAAGTGCT GGGATTACAG GCAAAAGCCA ACACACCCGG 60
CCTGGATATG AATTTATAAT ACCCTACAGT GCAGACAAG AAGATGCACT CAAAGCACTG 120
ATGTGAGGAA GTACTTGCCC CGTAGCAGCT ATTCCTCTA CCAGTGTAAG CAACTCTAA 180
GGCTAGGGCG GGGCAGCACA GGCACANGNN TATACTAGCC AGGGGTTTAA TATAANTACA 240
ACCAGCATAG NAAGNCCCAA ANCTNTACAG NNNCCAANAC CNGGNN 286
```

(2) INFORMATION FOR SEQ ID NO: 4930:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 311
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05870

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4930:

```

GATCTGTGCC CCATGCCTGT CCAGCCTGGG CAGCCAGGCT GCCAAGGCCA GAGTGGCCTG 60
GCCAGGGGCT CTTCAGGCCT CCCTCTCTCT TCTGCTCCAC CCTTGGCCTG TTTCATCCCC 120
AGGGGTCCCA GCCACCCCGG GCTCTCTGCT GTACATATTT GAGACTAGTT TTTATTCCTT 180
GTGAAGATGA TATACTATTN TGNTNAAGCG TGTCTGTANT TANTGTGTGA GGANCTGCTG 240
GGNTTCANTT CGNGTGNACG GTGGGAGAGN TTGGGTGCCC GNGAGAATNG ACGGGCTNAT 300
GGNTTCCTTT N 311

```

(2) INFORMATION FOR SEQ ID NO: 4931:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 305
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05871

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4931:

```

GATCAAAAAA CTACCTATCT GGTACTATGC TTTTNATCTG GATGATGAAA TAATCTGTAC 60
AACAAACCCT GGTGACATGC AATTTACCTA TATAGCAAGC CTACACATGT GCCCCTGAAC 120
CTAAAAAAGA AGTTAAAAGA AAAACGTTTG GNTTATTTTC CCTCTTTNGA ACAANGNCAT 180
TGGTTTGCCC AAGGNCTACA AATAANCCAA CGGGAAAAAN GANAGGTTCC AGTTTTGTNT 240
GANAATTCTG ATTAAGCCTC TGGGCCCTAC AGCCTGGGGA ACCTGGNGAN TCCTACACCC 300
GGGAN 305

```

(2) INFORMATION FOR SEQ ID NO: 4932:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 233
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05872

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4932:

```

GATCCAGAGA CACACAAGAG CACCAAAGCA GCTCATCCCA CTGATGACAC CACGACGCTC 60
TCTGAGAGAC CATCCCCAAG CACAGACGTC CAGACAGACC CCCAGACCCT CAAGCCATCT 120
GGTTTTCATG AGGATGACCC CTTCTTNTAT GATGANCACA CCCTNCGNAA ACGGGGTCTG 180
TTGGTCGNAG NTGTGCTNTT CATCACAGGG ATNATNATTN CTNACCAGTT GGN 233

```

(2) INFORMATION FOR SEQ ID NO: 4933:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 276
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05874

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4933:

```
GATCTACTAA AACACTAAGT TTCATACTAA ACCGTTTCAT GTATCTTTAT CATATTCTGT 60
AAAGTTTACA CTTTGATGTA CCTGTATTTT ATTGAAATAC TGTCCAGCTT CAAATGGAAC 120
AATATTGTAT GTAGAAATTC CAATTACTGG TTTGTCAGTN GGATTCTTAG CTCTGTAAAA 180
CGCCAGTGCA GTCTCTCCTG GCACCACCTG TTTTAAAGAG TATATATATN ATCAGTNCTT 240
TGNNTCTCAC AAAGNGCCTC NNTTTCCTG CTAAGN 276
```

(2) INFORMATION FOR SEQ ID NO: 4934:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 89
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05875

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4934:

```
GATCTGGTGG GCTGGGTCCC CCTCTCGACC NCAGACGCCC CTAAGTCGCC CCTTCTCATT 60
TTATACAATA AACATTCTCC ACCTACAAA 89
```

(2) INFORMATION FOR SEQ ID NO: 4935:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 313
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05876

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4935:

```
GATCAGGAGT TCTAGGCTGT AGTGTGCTAT GAGCACATCT ATGAATAGGC ACTGCGTTCC 60
AGCCTGGGCA ACATAGTGAG GCCCCATCTC TTAAAAGGGC ACACGTGTAT AGGACAGCTC 120
CATTATAATC TTATGGGACC ACTGTAATAT GTGTAATCCA TTGTTGACTG GAACATCCTT 180
ATGCAGCACA TGACTGTGTA CATAACTTAA AATTTATCAT TTAAACCATT TTTAAGTGTA 240
CAATTCGGTG GTATAAAGTA CATTTACATT ATTGTGTAAC TATCACCTCT ATCCATCTCC 300
CTAACTTTTT CNN 313
```

(2) INFORMATION FOR SEQ ID NO: 4936:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 224
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05877

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4936:

```

GATCCGGGTT CAGAGTGACG TTTTCCTCA CAAGCAGAAG GTAACAAATT TCATGCTCTC 60
CCTAAATTCT GTCTGATTTT GCCTNGTGGT GATAGATTGT CANGAACACA ATGTCCTCTG 120
GAGAAATCTA TTGACAGAAA TTGGTGCAGT GTTANCAACG CTAATGTAAA ACACAGANTT 180
TACAGAAAAN TAGAGAAAAT AAACACATTT GTNNGCCTCA GAAA 224

```

(2) INFORMATION FOR SEQ ID NO: 4937:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 314
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05879

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4937:

```

GATCCTCTCT CCCAGGGAAT CCGACACAGG AGGAACCCCT TCTNTGGTTG ANCTGGGCCA 60
GGCCTAAGAG TAGCAGGAAC TCTAAGACCA CAGAGTTTTT TATAAATGTA TAAATGTATC 120
AAGCCAAATN TGCAGATGCT AACTGGACAT TCTGGGGAAC TGGGCACCAG GNGTGCCTTC 180
ATACACTGTA CCCCAGCTCT NTTCTAAAAG AGAAGTNGGT GGGCACACTT GAACTGTTTG 240
GTGGNCCNAA CCACAGGANG CTGCAATTNT NTGGNTTAGG GTGATACTTT TGGCCCTNCN 300
TGTGGCCCT NTNN 314

```

(2) INFORMATION FOR SEQ ID NO: 4938:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 143
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05880

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4938:

```

GATCTGAAAG TATAAACTG CTAGAAGAAA ACATGGATAT TTGATTGGAC AATGATATTT 60
GGATATGACA CAAAAGCCT AGGCAACTAA TGCAAAAATA GACAGGGAGA GTACATCAAT 120
CTTAAAAACC TTATGATGGC AAA 143

```

(2) INFORMATION FOR SEQ ID NO: 4939:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 389
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05882

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4939:

```

GATCTGAAAT ACCATCTCTA CCAGAGACTC TGGGAAAAAT AATGGATTCC AAGTGTTAAA 60
CGGAATTAAG TTTGGQCTAA AACTGCCTCT GTACATAGTG ACTTATAACC TCACTTAATG 120
TATAAGCAAA CTGGGACCTG ACTTGAGAGT ACACTTCTGT AACAGCAGC AGAGTCTCAC 180
CAATCACATG CTGAAGGCTC CCAAAACATG NCTATGTGAG GTGGAGGCTG ACCTGCAGTC 240
AGTCTGGCCA TGTACATGNG TCTTTCCCTT NCTGTGGCTA TAAATAAATA CAGCCTGNAC 300
ACANCGGACA GGNGGACCGT TCTGNACCAN GNTTGGGTCC TGNGNGNTAC CNAGGTNGAN 360
GNAACTTTTT TTNGGCTCAN TTAAACTGN 389

```

(2) INFORMATION FOR SEQ ID NO: 4940:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 131
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05885

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4940:

```

GATCTCTCCG CCTTAGTTAA GAGCATGTGT CGGGAAATTC CTCAGAGTGC TCAGAGTCCC 60
TGTATNTTTA TACCTTTTAA CAATGTTAAC TGTTCAGAAC TGNTTTTGT AACAAACCT 120
NNTGTTTTAA A 131

```

(2) INFORMATION FOR SEQ ID NO: 4941:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 115
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05886

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4941:

```

GATCATGGCG CAGTTGGNCA GGAGATGTTT TCCCCATCT GCTGTAGCGA ATATGTGAAG 60
TGGGAGGTGG CAACNGAGCT GCCNTTCCAC CACTATTNCC ACAAGCCGTG TGTNN 115

```

(2) INFORMATION FOR SEQ ID NO: 4942:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05887

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4942:

```

GATCCTCCCG CCTTNGTCTG CCAAGCACT NGGGTTACAG ATGTGAGCCA CTNCACCCAG 60
CCTAATCTTN ATAAATCTCC ATCCCCATTA CTCTGGTTCA CCCNN 105

```

(2) INFORMATION FOR SEQ ID NO: 4943:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 350

(B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05888
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4943:
 GATCACGGAC GTGCAGCTCG CCATCTNCGN CAACATGCTG GCGTGTCTGC TCTTCTNGCT 60
 TGTNGTTCTC TATCACTACG TGGCCGTCAA CAATCCCAAG AAGCAGGANT GAAAGTGGCG 120
 CTTTCTCCGC CCCAGGGTTC CAGGACATAG TCTGAGGCAA GATGGAGGGT ATGAGGGGCC 180
 TTCACACTNC ACTTCATCCC TTCTACCCAT CACAACATAC AAAGCAACTA CACCTGGGAT 240
 TTTNCCAAGC AGCTTTNATT TCCTCAGNGT CTTCTTAAT CCTATGGGNA CANGGAAGCT 300
 GCCACTNGNN TAGGGNCCAG TATAGGGGGC TTNGCTTTTT TAACTGCNTN 350

(2) INFORMATION FOR SEQ ID NO: 4944:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 304
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05889
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4944:
 GATCCAGCGG CAGTGACAGA ATCCAAAGAG GGAACAGAGG CATCAGCATC GAAGGGGCTG 60
 GAGAAGAAAG AGAAATGATG CAGCTGGTGC CCGAGCCTCT CAGGGCCAGA CCAGACAGAT 120
 GGGGGCTGGG CCCACACAGG CGTGCACCGG GTAGAGNGCA CAGGTAGGCC AAGGGGNAGC 180
 TCCCAGGACA GGGCAAGGGG GCAGCANGGA TACCTGCNAG CCAGGGNCTC TNTGGCCTNT 240
 NTTTTCTAN TCCNTTTTTT TGGCCCTTCT TTTTNTNTG CCGTACANCN TGCAGGCAAA 300
 AGNN 304

(2) INFORMATION FOR SEQ ID NO: 4945:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 64
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05890
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4945:
 GATCAAAACA AAACAAAAAA GTTGTCTCTG AAAAAAAAC AAAACAAAAA AGTTGTCTCT 60
 GAAA 64

(2) INFORMATION FOR SEQ ID NO: 4946:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 136
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05892
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4946:
 GATCAACCTT TGTNTGCGAG GGTCTAAGTA GGGTCGAACA CAGAAGTGGG AAGNAGAGGG 60
 GTGGGCCAGG GGCTAATGGT GTCACGTGT AAAGTTTTTG ACATACTAGC TCTATAAATA 120
 TATGAATATG GACAAA 136

(2) INFORMATION FOR SEQ ID NO: 4947:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 162
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05893
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4947:
 GATCCTCTGC TACCAAACAA TGATGTGGAT TCTTTTGCAC AGAAATATTT AAGGTGGGAT 60
 GGTAAAAAAT GTCACAAAAG ACTCCTCACC AATACTTNAT GTTGATATCA CTTAATATTA 120
 ACCAGACTTT GCTGTATTGC AATAAACAG AGAACTGTTA AA 162

(2) INFORMATION FOR SEQ ID NO: 4948:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 405
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05894
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4948:
 GATCATCGCC TCCCTGGTTT ATAGTAGACA GACCTTTTCT GTTTTTCATC CGACATAATC 60
 CTACAGGTGC TGTGTTATTC ATGGGGCAGA TAAACAAACC CTGAAGAGTA TACAAAAGAA 120
 ACCATGCAAA GCAACGACTA CTTTGCTACG AAGAAAGACT CCTTTCCTGC ATCTTTCATA 180
 GTTCTGTTAA ATATTTTTGT ACATCGCTTC TTTTCAAAA CTAGTTCTTA GGAACAGACT 240
 CGATGCAAGT GTTTCGTGTC TGGGAGGTAT TNGAGGGAAA AANCAAGCAG GATGGCTGGA 300
 ACACTGTACT GAGGAATGAA TAGAAAGGCT TCCAGATGTC TAAAAAGATT CTTTAAACT 360
 ACTGNAACTG TTACCTAGGT TAACCANCCC TGTTTGAGGT ATTTN 405

(2) INFORMATION FOR SEQ ID NO: 4949:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 330
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05895
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4949:
 GATCTGCTCG GAATCCTCCT GCTAAGAAG GNTCTGGGCG TGAGCTCAGC CGCCCCGCAC 60

CCCAAATCCA GTACAGGAGG CTGCTGGTAC AAATACTGCA GTAATGACAC CAATAATGGG 120
 GCAGACACAA CAGCGTGGCT TAGATTGTGC CCACCNAGGG AAGGTGCTGA ATGGGACCCT 180
 GTTGATGGCC CCATCTGGAT GTAAATCCTG AGCTCAAATC TCTGTTACTC CATTACTGTG 240
 ATTTCTGGCT GGGTCACCAG AAATATCGNT GATNCAGACA CAGATTATTG TTCCTGCTGT 300
 ATTTGCTGGT TTNCCTGGTT GAATTGGTTN 330

(2) INFORMATION FOR SEQ ID NO: 4950:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 308
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05896

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4950:

GATCCAGAAT TTATTAGTTT AAAATGCAGG TGAACTTTTT TTTGCGTTTG GTTTACTTGT 60
 CTGTCAAATG TTTCCTTAAA CATGAACTG AATAAGGAGA AGAGTATTTT TAACACTTAA 120
 ATTTCTTGGC AAATTTTAAA ACATTTTNA GTCTGTAATA CACTCCACTT GANGCACTTA 180
 AGTNTTCCTT AAATGACTTT CCTTAGGTAA TGATACTGGT GTGTTTTCCN AAGGCCCTTT 240
 TAAAAAAGTN TNNNTAANTG ACTATCTGTT GAAANGGTGT CCTGTNCCTT NCTNCTAGNA 300
 ATNTGGGN 308

(2) INFORMATION FOR SEQ ID NO: 4951:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 97
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05897

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4951:

GATCGGAAGC AGAAGATGGC CTTCTTAAAG AGTTTAGAAG AATTTATGGC AAATGTTGGT 60
 GGTCTCCTTT GTGTAAATA AACACAGAA CTTTAAA 97

(2) INFORMATION FOR SEQ ID NO: 4952:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 229
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05898

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4952:

GATCTGATAT TAAACATCC AGTAGTACGA GTCTGTTTAT TGAATTTTAT GGTCCCTTTC 60
 TTTGATGGTG CTTGCAGGTT TTCTAGGTAG AAATTATTTT ATTATTATAA TAAACAATG 120
 TTTGATTCAA AATTTGAACA AAATTGTTTT AAATAAATTG TCTGTATACC AGTACAAGTT 180
 TATTGTTTCA GTATACTCGT ACTAATAAAA TAACAGTGCC AATTGCAA 229

(2) INFORMATION FOR SEQ ID NO: 4953:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 144
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05899

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4953:

```
GATCCAGAGC CCCTCCCCAT CTTCTCTCT CTA AAAACAA CCCTACCCCC CATTGCCACC 60
TTCACCTCTG TGTCTCCAGC TGATTAGCCT CAGACTCTTC TTNTATTGTT TTTCTTTTGT 120
AAATAAAAAG CACCAGGTTC CAAA 144
```

(2) INFORMATION FOR SEQ ID NO: 4954:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05900

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4954:

```
GATCCGTGCC CTGTAAATG GATATNATGT TTTACTGATG TCTNTAATAC ATTTGTAAAC 60
TTCCAATAAA ATTTGAATAA AAGAAATNTT GCCATTCTTC TCAA 105
```

(2) INFORMATION FOR SEQ ID NO: 4955:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 325
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05902

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4955:

```
GATCTGGCAG CCCTGGAGAG GGAATATGAG GAAGTGGCGC AAAGTTTCTG AGGCATGTAT 60
GATGGGTGCA AATGAATGTC AAGTTAAAT GGCATGTTTT CTTTCAAGC CGNTATATGC 120
CTAGTGGGTA GTTCCCCTGA TGAGCAGAAA AATTGAACTC AAATCAGGCA AGACTCTAGG 180
NTCCACACTA AATTAAGTGG GTCAGTANCG NCANTGANCA CATTATTTCC TGGTCTACTG 240
GGTACANGTC AGCTCTGCTT ACCTGNGGAG CNTTTTGGAA GCTTAAGAGT NCTTTTGAAC 300
CTGGCTTGAG GTCAACTTGT TAGGN 325
```

(2) INFORMATION FOR SEQ ID NO: 4956:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 321
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05903

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4956:

```
GATCTGTACA GACAGGACAG AATGAAACTC CTGCGGCTCT TTGGCCTGAA AGTTGGGAAT 60
GGTTGGGGGA GAGAAGGGCA GCAGCTTATT GGTGGTCTTT TCACCATTGG CAGAAACAGT 120
GAGAGCTGTG TGGTGCAGAA ATCCAGAAAT GAGGTGTAGG GAATTTTGCC TNCCTTCCTG 180
CAGACCTGAG CTGGCTTTGG AATGAGGTTA AAGTGTGAGG GACGTTGCCT GAGCCCCAAAT 240
GTTGTAGTGT GGTCTGGGCA GGCAGACCTT TTAGNNTTTT NCTGCTTTAG TTCCTGAGGN 300
ANNTNGGNCA CTCTTTNTNT N 321
```

(2) INFORMATION FOR SEQ ID NO: 4957:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 313
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05907

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4957:

```
GATCCAGGGG CTGATTGGCA GCGTGGAGGA GCAGCTGGCC CAGCTTCGCT GCTGAGATGG 60
AGCAGCAGAA CCAGGAATAC AAAATCCTNC TGGATGTGAA GACGCGGCTG GAGCAGGAGA 120
TTGCCACCTA CCGCCGCCCTN CTGGAGGGAG AGGATNCCCA CCTGACTCAG TACAAGAAAG 180
AACCGGTGAC CACCCGTCAG GTGCGTACCA TTGTGGAAGA GGTCCAGGAT GGNAAGGTCA 240
TCTNCTNCCG NGNGCAGGTT CACCAGACCA CCNGTTTGAG GNCTCANCTA CCCCAGNTCG 300
GNCANCCATN TNN 313
```

(2) INFORMATION FOR SEQ ID NO: 4958:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 54
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05908

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4958:

```
GATCATTAAAT GTCATTGCAA TNGTTATTTT TTAAATAAAA TTTATAAAAA TAAA 54
```

(2) INFORMATION FOR SEQ ID NO: 4959:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 208
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05912

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4959:

```
GATCTACAAG AGCAAGCCAA CAGAGTAAAG TGGAAGGAAG TTTATTTCAGA AAATAAAGGA 60
```

GTATCACAGC TCTTTTAGAA TTTGTCTAGC AGGCTTTCCA GTTTTTACCA GAAAACCCCT 120
 ATAAATTAAA AATTTTAC TTAAATTAA GAATTAAAAA AATACAAAAA AGAAAAAATG 180
 AAAATAAAGG AATAAGAAGT TACCTAAA 208

(2) INFORMATION FOR SEQ ID NO: 4960:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 92
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05913

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4960:

GATCCAAGTT ATAGATGGAA TTGAAGCCCT TGTNGCTGTA GATGTGCGTG CAGTCTGNCA 60
 GCCTTAAGCC CACCTNGGCA CTTTATAGATA AA 92

(2) INFORMATION FOR SEQ ID NO: 4961:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 270
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05914

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4961:

GATCAACAGT AACTGGATGT TTTTNAGGNG CTCAATTGGA ATAAAAATAT TNNAATCTAT 60
 TTGGAGACCA AAGGCAAAAT CGGTTTTCTT ACCTTTGGAA TTATTCGTAC CTTTTATGGT 120
 AAATTTTCAGC TTTGACANGT ATTATGAGGA ACGTACCAA AACC GGTTTG TAACAAATCT 180
 NTAGAGNAGG TCTGAATCTN TCGNNCTTGC CTTTTCAGGT GCCATTTCTA CTGGCCTAAT 240
 ACAGNGCCAT TTGGCTTGTG AAGNNCCATN 270

(2) INFORMATION FOR SEQ ID NO: 4962:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 236
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05916

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4962:

GATCTATGCC CNTNTTAATC TCCATCCATA TAGGAGTCAC GTTCTTTAAG ACAGATGGTG 60
 GTAGTTATTT TTGTGGCATG GTTAGATTTG ACTGGTTTTG CAGAAGATTA CAGTTATGTA 120
 CTGCATAATG NCATATACAA TAGTGGTCCC ATAAANNNNN TAATGGAGCA GAAAATCTAT 180
 TGCCTCATGA TGTTTATAGCC GGTTTANTGT CATAGNCTAG TGCATNACTC ACGTGN 236

(2) INFORMATION FOR SEQ ID NO: 4963:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 265

(B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05917
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4963:
 GATCGAGTAA GGAATGACCT NTAGATTGTG CGACTTTTGT TTTGTTTN TTAAATTTTT 60
 ATAAACCAAG AATGATTCT CCNGCTTCN TCTCCTCACC ATCTCCCAG ACGGAGTTCA 120
 AAGGCCACTT CTCAAGCAGC TTTTGGCACC TTCAGCCTCA GAGTGAATC TTTTAAAGAC 180
 AGGACCCCTA TGTCCAGGNA AGGGGAAAAG GAACNTGCC ANTGATAGTG ACCACAGCAN 240
 NNGCAANTAA TAGTAATNTT NATAN 265

(2) INFORMATION FOR SEQ ID NO: 4964:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 54
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05918
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4964:
 GATCACATTT ATACAGTTAT AAAAATAAAG GTTTGATTTT GGTCGTTCTT CAAA 54

(2) INFORMATION FOR SEQ ID NO: 4965:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 63
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05919
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4965:
 GATCTCTATG GCTGTAAAAT ATTTCTTTAT AGCGTTATTA AAGTGTGTCT TAATAAAATT 60
 AAA 63

(2) INFORMATION FOR SEQ ID NO: 4966:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 233
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05920
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4966:
 GATCCACAAA AGAAGTGAAA GTAGCCTTAA CTGATGACAT TCCACCATTG TNATTTGTTC 60
 CTGCCCCACG CTAAGTATA CCATATATTC TTCCCCGCC CTTGAGAATG TACTTTGTAC 120

ACCTATCCCA AACCTATAAG AACTAATGAT AATCCNACCA CCCTTGCTG ACTCTCTTTT 180
TGGACTCAGC CCGNCTGCAC CCAGGTGAAA TAAACAGCCC TGTGCTCAC AAA 233

(2) INFORMATION FOR SEQ ID NO: 4967:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 137
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05921

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4967:

GATCTCTGCG TTTTATACT GAGTGTGCTT AGGTGCCCC TTATTTTNA TTTCCCTGT 60
TGC GTTGCTA TAGATGAAGG GTGAGGACAA TCGTGTATAT GTACTAGAAC TTTTATTATA 120
AAGAACTTT TCCCAA 137

(2) INFORMATION FOR SEQ ID NO: 4968:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 90
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05923

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4968:

GATCTGTAAA CCCTTACCCC TTGCTGTTCA GAGAGCTACT CTTGTAGTG TTCTGTCATG 60
CATATATAAT AAATATTTTT TCTATTGAAA 90

(2) INFORMATION FOR SEQ ID NO: 4969:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 259
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05925

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4969:

GATCTAAATC AATGCAATAA AGTAAGAAAA ATAAATAAAA GTATTGAAAA GATTGAAAAG 60
AAAGAATTGA AGCTGTCTTT ATTCACAGAT AATGACTGTG TATGTTAATA ATCCTAGANA 120
TCTACAAAAN TCTGCCAAAN CTAATTAGTG AGTTTGGTAA TGTTGCAGGA TATAAGCTCA 180
ATAGAAGTAG TCTTTNGTAT TTCTGTGTAT TAGCAGTGAG CATTTGGAAA ATGANATAAN 240
ANTACAGTTT CATTTCAA 259

(2) INFORMATION FOR SEQ ID NO: 4970:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 350
(B) TYPE: nucleic acid
(C) STRANDNESS: single

(D) TOPOLOGY: linear
(vii) IMMEDIATE SOURCE:
(B) CLONE: HUMGS05926
(ix) FEATURE:
(D) OTHER INFORMATION: "N"=unidentified base
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4970:

GATCTGTGCC	CTTGGTCCCA	GGTCAGGCCC	ACCCCTGCA	CCTCCACCTG	CCCCAGCCCC	60
TGCCTCTNCC	CCAAGTGGGG	CCAGCTGCCC	TCACTTCTGG	GGTGGATGAT	GTGACCTTCC	120
TTGGGGGACT	GCGGAAGGGA	CGAGGGTTCC	CTGGAGTCTT	ACGGTCCAAC	ATCAGGACCA	180
AGTCCCATGG	ACATGCTGAC	AGGGTCCCCA	NGGAGNCCCC	GTCAGTAGGG	ATGTTTGCCT	240
GGNTGTTTAC	GTNGGGGTGT	NCAGTGNACG	TGNAGGAGCA	CGTGGGCGGC	TTCTGNGGGG	300
GNCAATGGTT	TGGGGNANGG	GAAGGTGTGC	CAGCAAACCT	NGGNNGGATN		350

(2) INFORMATION FOR SEQ ID NO: 4971:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 202
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear
(vii) IMMEDIATE SOURCE:
(B) CLONE: HUMGS05927
(ix) FEATURE:
(D) OTHER INFORMATION: "N"=unidentified base
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4971:

GATCCACGGG	CTGCAGAATG	GATATTGTAT	TAGCAGGCAT	GAAAACAACA	TTCATCTCCT	60
TGTGCATCTC	TGTCTGAGTT	CTTGGGTGAC	CAAATGCCTT	GTCAATGAGT	GTAGTATTTT	120
GAAAGGAATC	TTTTTTTTTT	TTTTCNCAGC	AGTAGGNCNC	AANGGTGGGC	TTCAATTATT	180
CAGTAAACTA	TGTAANCAGA	AA				202

(2) INFORMATION FOR SEQ ID NO: 4972:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 127
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear
(vii) IMMEDIATE SOURCE:
(B) CLONE: HUMGS05928
(ix) FEATURE:
(D) OTHER INFORMATION: "N"=unidentified base
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4972:

GATCCCAGCT	ACTCAGGAGG	CTGAGGCAGA	AAAATCACTT	GAACCCAGGA	GGTGGAGGTT	60
GCAGTGAGCA	GAGACCACAC	AACTGCACTC	CAGTCTGGGC	AACAAAGTGA	GACTCTGTNT	120
TACTAAA						127

(2) INFORMATION FOR SEQ ID NO: 4973:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 249
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear
(vii) IMMEDIATE SOURCE:
(B) CLONE: HUMGS05932
(ix) FEATURE:
(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4973:

GATCCTATCA ATTAGA CAGT AAATAAGTGC ATCTTTTGTG AGACAAATGC AGTAGGCAAA 60
 TGTTGACATT CACCAGGGCA CAGTCAATCC CTGACAATTT CAGAAGTTT GTTGCCAATA 120
 CTGATTTATG TGGGCAGATT CTGGNAGTCT GCTGCTCCTT CNCTCATGGA TNACCTNCNN 180
 NNNCTACAG TTGCACCTAT TCTACACAAG AGTGGCATT C ANNGTATCC AGGAAAGCTA 240
 GANCAGGTN 249

(2) INFORMATION FOR SEQ ID NO: 4974:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 189
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05933

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4974:

GATCCGAGTC GTCCGGAAAT CCATTGCCCCG TTTTCTCACA GTTATTAACC AGACTCAGAA 60
 AGAAAACCTC AGGAAATTCT ACAAGGGCAA GAAGTACAAG CCCCTNGACC TCGGCCTAA 120
 GAGACACGTG CCATGCGGCN NCGCTNAACA AAGACGGGNG AACTTAAGGC CAGGAGAGCA 180
 NNGNAGGAN 189

(2) INFORMATION FOR SEQ ID NO: 4975:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 230
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05934

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4975:

GATCATCATC TTTCAGGTGG TCTTCCTGGG CCTCCTGGCT GGCCTGGTGG TCCTATTCTA 60
 CGNATATCCT GTCCNCTGTG AGTGGTATGA GTTCCTCACC TGCATCCCCT TCACTGACAA 120
 GTTCTGTGAG AAGTACGAAC TAGATGCTCA GCTCCACTGA GCTNGCTGCG GGGTTNCAGC 180
 GNNGGGTGTG CTCCAGCAGG GCCAGAGNCA GNCAAGANCT ACNCTGNGGN 230

(2) INFORMATION FOR SEQ ID NO: 4976:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 66
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05937

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4976:

GATCATTAAT TATATGTAAA ATAATATACA TTCAGTTATT AAGAAATAAA CTGCTTTCTT 60
 AATAAA 66

(2) INFORMATION FOR SEQ ID NO: 4977:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 105
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05938
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4977:
 GATCTATGTC TTTCAGCTAT GTGCTTTTAA AACTTTGTAA TTAGACATT GATATTGTCA 60
 TCAGATTGCT TATCAGCATT GCCATAAATA TAATTATTAA TGAAA 105

(2) INFORMATION FOR SEQ ID NO: 4978:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 162
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05939
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4978:
 GATCTGCCCA CCTCGGCCAC CCAGAGTGCT GGGATTACAG NCGTGAGCAC CGTGCCTGAC 60
 CAAAATAAAT AAATTTTAAA ATAGAAGTAA CTCAACTTCT GAGCTATGGA ATAGTTCTCT 120
 GTACCTCCAG TACCTAATAA AGAACCCAAA TACTGCAATA AA 162

(2) INFORMATION FOR SEQ ID NO: 4979:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 189
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05940
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4979:
 GATCGAGGAC TGGTACAGGA ACCACCAGGA GGAAGACCTG ACTGAATTCC TCTGCGCCAA 60
 CCACGTGCTG AAGNGAAAAN ACACCAGTTN CCTGGCAGAG CAGTGGTCCG GCAAGAAGGG 120
 AGACACAGNT GCCCTGGGNG GGANGAAGTC CAAGAAGAAG AGCATCANNG CCAAGGCAGC 180
 AGGNGTCAN 189

(2) INFORMATION FOR SEQ ID NO: 4980:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 66
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05941
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4980:
 GATCTNTTTA AAAAATGTAT AAATTNCTTG AGTAATTCCT GGATTAAAGA ATATGCACTT 60
 TTTAAA 66

(2) INFORMATION FOR SEQ ID NO: 4981:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 113
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05942

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4981:
 GATCGCTGGC ATCAAGAGTG GAGAGGACCG NACAGCCGNG AAGGCAGCCT TTCANGAACC 60
 TATGCTGGTG AGTGTAGGAG ATNGCTTANG AAGAGCTCAG ACCCTCTATC AAN 113

(2) INFORMATION FOR SEQ ID NO: 4982:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 316
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05943

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4982:
 GATCATAGTT ATTATACAAT GTAGTGAGTC CTGCATGGGT NCTCGATGTG TAATGAAACC 60
 TGAAATAATA AGATAATAAG AAAAGCAATA ATTTTCTAAA GCTGTGCTGT CGGTGATACA 120
 GAGATGATAC TCAAATTATA ATAAACTCT TCATTTTGTG AATTATAGAA GCTACTMNNN 180
 NTAAAGCCAT ATTTTTTTTAG GGAAACTAAG GAGTGACATA GAACTGATGA ATGAGCAAAA 240
 GTAAGTTTTG CTGGATTTTT GTAGAACTCT GGACGTTGAG GATTCATTAT GCTGTGGTTA 300
 ACTTTAAATA TTTTNN 316

(2) INFORMATION FOR SEQ ID NO: 4983:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 338
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05946

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4983:
 GATCAGCCCA CTTAGTCTC CCAAAGTGCT NGGATTACAG ACATGAGCCA CCTACCTGNC 60
 CGGAGTTATT TCTAAACACA ACTAATATCA GAATCGCCTA TTTCATAAAA ATTGGATTCA 120
 TCAAATNAAT CTTTGGCCAA CAACATTTG AGAATGATNN NNANCATCAT ACATAGGAAT 180
 GCTACGTTTT CTAGGATTTG ACATTTACAG CANTCGAGAN TTACCCTATT TTGTAAATNG 240
 AAATAACCAT TACTAAAATC ATGCAAGCTT CAGCTNCTCG GGTTCCCTATA GNGTCACCTA 300
 AATCGTATGT GNATGGATAC ATAAGNTTA TGNATCAN 338

(2) INFORMATION FOR SEQ ID NO: 4984:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 154
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05947

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4984:

```
GATCCGCCCG CCTTGGCCTC CCAAGGTGCT GGGATTGTAG GCGTGAGCAC CCCTGGCCTC 60
NAATNTTCAC ATTTATATAC TGAATTATAC ATTACATTAT GTACATATGA TAACTAGTTG 120
CTTAAATATT TTAATAAATT ATATCTAATG TAAA 154
```

(2) INFORMATION FOR SEQ ID NO: 4985:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 122
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05948

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4985:

```
GATCATGCAG AGAATATATA TTGTACTGTA GTAATTTTNT ATTTACATTT GTATGATGTG 60
ACATAATAGA TGTGAATGTT AATCACTGNT TGAATATGTT AATAAAGTTG TTAACTATA 120
AA 122
```

(2) INFORMATION FOR SEQ ID NO: 4986:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 133
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05949

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4986:

```
GATCTCTATT TTAATNNTAA TTCTAGTTAG TTGTGCCTNA ACTCCAAAGA AATGNGAGTA 60
TAGTGAGGTA TGTCTGACTC CCACTTCTTA TCATGCTCTG AACTAGTTNT TTATGTTTCT 120
TTGTGTTNCC TTN 133
```

(2) INFORMATION FOR SEQ ID NO: 4987:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 351
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05951

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4987:

```

GATCGCACAC ATGCTTTNTT NNNATATGGA GTGAACACAA TTATGTACCA AATTAACTT 60
GGCAAACCTT CTATTGCCTG TCCCATGTGC ATCTTATTTA AAATTTCCCC CATGGAAATC 120
ACTCTCCTGT TGA CTATTTC CAGAGCTCTA GGTGTTTAGG CAGCGTGTGG TGTCTGAGAG 180
GCCATAGCGC CATCATGGGC TGATTTTTNA TTACCAGGTC CCCCAGAAGC AGGTGGGGGAG 240
GCTCTGCTTN CTGCTGCCGG TCTNCAAGNC TTGGACCTNT GGACCCTGNT TTGTAAAGNG 300
TAAATTNGTA TCCTTNAGGG AAACCCAAGT GTCAACCTTG TTTNTTCAAT N 351

```

(2) INFORMATION FOR SEQ ID NO: 4988:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 310
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05952

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4988:

```

GATCGACACA TTCGNATCTN NAATGNGTGC TCTGGGGCCT GTCTGAGTGC CGTGGATGCC 60
CATTCCCAGG TGTGCTCCAT CCTCTGGTCT CCCCATTACA AGGAGCTCAT CTCAGGCCAT 120
GGCTTTGCAC AGAACCAGCT AGTTATTTGG AAGTACCCAA CCATGGCCAA GGTGGCTGAA 180
CTCAAAGGTC ACACATCCCG GGTCCTGAGT CTGACCATNA GCCCAGATNG GGCCACAGTG 240
GCATCCCGNA GCANCAGATT GNGACCNTGA GGCTATGGNC GCTGTTTTGA NGTTGGTACC 300
NTGCGNNGGN 310

```

(2) INFORMATION FOR SEQ ID NO: 4989:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 150
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05953

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4989:

```

GATCTGAAAC AAAATCTTTC TAAAACATTG TTTTAGTTGT CAAAGCACCA ACAGGACATT 60
TTGGGATGTG AAATGTAATT TCTTGGAATC TGTAATTTGT ACTTAATATT TNAGGCTTGT 120
ATTTAATATA ATAAATAGGT GTTTGTAA 150

```

(2) INFORMATION FOR SEQ ID NO: 4990:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 240
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05954

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4990:

```

GATCATCCCT TCACAATCCC AGAGTGGCAG GCGGGACCAG CCCCATGGTC TGGCTCCTGT 60

```

CACCTGGGTC CGTGCCAGCA CAATCTGCCA AAGTTCTAGA GACCCTGTTC CCTTCCCCAT 120
 NAGGTCACAT GCTTCTTCTG TGTGTATTTT TTTTGTGTTT TATGGTTTTT GGAGCAATTT 180
 AAACTCCCAG TTGNNTATTT TCACAAAAGA AANTAAATTT GCAGTTGCAA GCCCTTTAAA 240

(2) INFORMATION FOR SEQ ID NO: 4991:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 323
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05955

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4991:

GATCCTTTTT TGTACATTTA AGAATATTTT GATTATATTA AACAAGACTG CTGATTTTGC 60
 TACTTTTTTTT AAGGGGTCTT CANGTANGTA AAACATACAT CGTAGCTAGA AGAAAAATGT 120
 ACCTTAAATT TGCATCTTCC CTCTCATACC CAAGCTGTAA ACAATTGAAA TATTTTGTCT 180
 TAAATCACTT GGTTC AATAC ATGCTTATTT GTTTTAAAAC CTGTATCATC ANACTCTCTC 240
 TCNAAATTTA AAATGCTGTT GAATATGATA CTTTGTAGGA GAGAGTGTGC TCAGAACTTA 300
 GACGGGGTTT GG TAGGCCAA NGN 323

(2) INFORMATION FOR SEQ ID NO: 4992:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 110
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05956

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4992:

GATCTTAACC ATCACAAGTT TTTACCCTCT TCCTTCATGC CTGACCTCAA CCCCCTCTC 60
 CTCATCCTAT TCCTAAATTA GGCTAATAAA GTGAAATTGG TATACTTAAA 110

(2) INFORMATION FOR SEQ ID NO: 4993:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 228
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05957

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4993:

GATCGCTTGA GCCCAAGAGT TTGGGACCAA TCTGAGCAAT ATAGCAAGAC CCCATCTCTA 60
 CAAAGAATAA AGAAAAATTA GACTAGCTTG GTGGCATGTG CCTGTGGTCC CAGCTACTCA 120
 AGAGGCTGAG GTAGGAGGAT TGCTTGAGCC TGGGAGGTGG AGGCATCAGT GAGCCATGAC 180
 CGTACCACTT CATTCCAGCC TAGGTAACAG AATAAGACCC TGTCTAAA 228

(2) INFORMATION FOR SEQ ID NO: 4994:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 182
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05959
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4994:
 GATCAAGCTA CACATCAGTT TTACAATATA AATACTTGTA CTACCTTAAT GATAAGNACT 60
 CCTTAAAGTT CCATTTGCTA ATNATTAATA CACTGTTTGG GCTGGCCAGT TTTTCATGCA 120
 TGCAGCTTGA CGATTGAGCA CAGTCAGGCC TTTGTATTAA AAATGAAANA TGAAANAACA 180
 AA 182

(2) INFORMATION FOR SEQ ID NO: 4995:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 300
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05960
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4995:
 GATCAACTGG TTTGTGTTTT GCTGCTGCAT TTATCCCAAG TNAAACAGGT TTAATCTCCA 60
 GANGAAAACC AAAATACCAT GGGATTTATG CTGNATTGAC ATCTTGCCCT AAACGNACAA 120
 CATCATAGTA ATTTGTTCATG GGCAACATGA CCAGNGAGAA GATTTTGTGTC ATGATTTTAA 180
 ATACACTGNC ACGCTACTGT TGGTTAAATT TAAACANGTT TTACCTGCAG NAATTCTCTC 240
 ACAAATAACC NGCAATAACT TGAAATGCAT NCCCTTTTGA ACACTTCCTT TNCTCATGGN 300

(2) INFORMATION FOR SEQ ID NO: 4996:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 162
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05961
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4996:
 GATCCTGCTC CCTTCTGGGC TCTGACTCTC CTGGAAATCT CTCCAAGGCC AGAGCTATGC 60
 TTTAGGTCTC AATTTTGGAA TTTCAAACAC CAGCAAAAAA TTGGAAATCG AGATAGGTTG 120
 CTGACTTTNA TTTTGTCAAA TAAAGATATT AAAAAAGGCA AA 162

(2) INFORMATION FOR SEQ ID NO: 4997:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 136
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05962

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4997:

GATCTCAACA ATATTCTTCC AAAATGGCAT ACATCTTTTG TACAAAGAAC TTGAAATGTA 60
 AATACTGTGT TTGTGCTGTA AGAGTTGTGT ATTTCAAAAA CTNAAATCTC ATAAAAAGTT 120
 AAATTTTGT CTGAAA 136

(2) INFORMATION FOR SEQ ID NO: 4998:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 53
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05963

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4998:

GATCTGACCT CAGAATATGC TTTCAGTGTT ATTTCTGACT AGTCCTTTTT AAA 53

(2) INFORMATION FOR SEQ ID NO: 4999:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 334
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05964

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4999:

GATCTGCATA AAGTNTTACA AACAAAATCC TCTTATGAG CAACACATTT TTCAGCTGCC 60
 AGTCAGACCA ACTGCTGTAA AGAACTTATA TCAAAGTGAG AAGCCACAGA AATGGAGAGT 120
 GGAAATATAT AGTGGTCAAA AGANGATTAA GACAGTTTGG CAACTGAGTG ACAGCTCACC 180
 CATAGACCAT CTGANTTTNC ACAAACCTGA TTTTTCGGAA TTATCACTAN ACGGTAGCCT 240
 NGAAGAAAGG NTATNCTTTN CTANCATGGT TACCTGCAGC CAGGTGCATT TGCAAGTGAN 300
 GTGTGCTGGT TGANGTCCTC TTNTAAGGGN ATTN 334

(2) INFORMATION FOR SEQ ID NO: 5000:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 117
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05966

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5000:

GATCTTCCAC TAGATGTCAC CAAAAGGACT GAGAACTAGA GAAAAGGGCT GCGATTTCTG 60
 CTCTCCTTGT AAGATTGCAC AAAAGANTAA ATTGCATTTA TCGCTGTTTG CATGAAA 117

(2) INFORMATION FOR SEQ ID NO: 5001:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 290
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05967
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5001:

```

GATCCCCCTT CNAGGTAGTG AAAATNAAAT NCGCCGGAGT GTGGCTGCCT TCACCGCGGA 60
CCCTCTGTCT CTCCTGCGCA ACGTCTGAGC ACAGGAGCCC ATCCTTGGCT CTAGGNTTCC 120
NCCGCTGGAA GCCTTCTGTT CANACACCCC TTATGNTCCA AGGCCTGATG TGAGCCAGCG 180
GGGGGTGCAT GGGAAACTGN ACCCNACAAC CCACATCCTN CATCCTGACT GCAGCANTGG 240
GGTTCCCCGG CAGGGNTGGG TGAGGNAGGA AGGGGGTCAA GCCTGGNGTN 290
  
```

(2) INFORMATION FOR SEQ ID NO: 5002:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 284
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05968
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5002:

```

GATCACCGTG AATCCGGCTT CCTCTGAGCA TTCGATGGCC TTAGCACCTC ATCAAGCCAG 60
CACATCCTGC CTGCTGTTGC AGCCTGGCTG GGTATTATTCT TCAGTTACCC TAATCCCATG 120
ATGCCCTGGAA CCTTGATTAC CGTTTTACAT CAGCTCTTGT ACTTTTNAGT ATATTTTCAT 180
AATGAGTTAT ATTGTCATTT AGACTTTGAA CAGCTCTGGG AAATAGAAGA CTAGGGTTGT 240
TTCTTAAAGT TTAGCTCATG TTATAATAAA AAGTTGNAAT GAAA 284
  
```

(2) INFORMATION FOR SEQ ID NO: 5003:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 346
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05969
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5003:

```

GATCGTCCCT GGTCACCCGA CTTTGGAATT TGCACCATCA TGTTTCAGTG AAGATGCTGT 60
AAATAGGTTT AGATTTTACT GTCTATGGAT TTGGGGTGTT ACAGTAGCCT TATTCACCTT 120
TTTAATAAAA ATACACATGA NGACAAGAAA GAAATGGCTT TTCTTACCCA GATTGTGTAC 180
ATAGNGCAAT GTTGGTTTTT TATAAAGTCT AAGCAAGATG GTTTTGTATA AANTCTGAAT 240
TTTGCAATGT ATTTAGCTAC AGCTTGTTTA NCGGCAGTGT CATTNCCCTT TGCACTGNAA 300
NGAGGAAAAA NNNNGNATTA AAAGGGTTGC CAANTTGGCA AAAGGN 346
  
```

(2) INFORMATION FOR SEQ ID NO: 5004:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 337
 (B) TYPE: nucleic acid

(C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05970
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5004:

```

GATCTGCTCG CCTCGGCCTC CCAAAGGATG GGATTACAGG CACCAGCCAC TGNGCCTGGC 60
TGGCCTCTGN TTTTAAATAA AACNTGACTA GAGTGACTCC ATCTTAAAGT GAGTAGCTAG 120
GCACTTACAA GGTTCATGCT TATGGCCTGA AAATAACCAC ATCCCAGGCT GACCACCAAT 180
TATAATTACA GANTATTTAT GGCCATACAG NNCATGNTCC ACCAAGCCTG CAGAATGTCC 240
AAATNTCCTA AGAATGCAGC CNCCATTACT TANATATANC ATAAATGAGC ANGCTTAGGT 300
TGCAGGNTTA ATGGTCGTGG ATANCAGCAT TNGNCCN 337
  
```

(2) INFORMATION FOR SEQ ID NO: 5005:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 211
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05974
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5005:

```

GATCAGGGTT ACATAGGTTT GGTAATAATNA GTGCTGGAAT TNAACCTTCT CCCAGTAGTC 60
TTAGGTCATG CTCAGTGAAC TTAAACTTTA TCCAGATATG GTTTTCCTTC AGCCTTTCTA 120
TTCCCTTTCT AGCCAGTGAA AGACCCGCTG CCCTTTGACC TCAGCCCCCTC CAAGCCCCCA 180
AGTTTAAAC GCCACCCNCT GCCACCAGAA A 211
  
```

(2) INFORMATION FOR SEQ ID NO: 5006:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 103
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05975
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5006:

```

GATCCTCCTG CCTTGGCCTC CCAGGGTGCT GGNATTGTAG GTGTAAGCCA CCAGGCCAG 60
GCTAACCCTT TATAAGAAAT AAAGTCTCCT CTCAAAATTT AAA 103
  
```

(2) INFORMATION FOR SEQ ID NO: 5007:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 265
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05976
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5007:

```

GATCCGCTCTG GGCACGCTGG AGCAGGAGGC CACAGCAGAC GTGGAGTGGC GCTGGCACCC 60
TTACACCAAT ACCGCACGCA AGAGAGTCTT CCTGAGCACC GAGTGAGCAC ACTCACCCT 120
CAGTCAGGAC ATGGACTTGG AACTCAGGAT TGGGCTGTCA TAGACAGACC CACCAGTAGG 180
AACTGTCACA GAATGGCCTG CTGAACTGGG ATGTGGAAGT GTGGCGGGTG GAGAGGTCTG 240
AATAAACCGT CTGTGTCATG GCAA 265

```

(2) INFORMATION FOR SEQ ID NO: 5008:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 308
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05978

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5008:

```

GATCATCAGC AATNCCTTCT GCACCANCAA CTGCTTAGCA CCCCTGGCCA AGGTCATCCA 60
TGACAACTTT GGTATCGTGG AAGGACTCAT GACCACAGTC CATGCCATCA CTNCCACCCA 120
GAAGACTGTG GATNGCCCCT CCGGGAAACT GTGGCGTGAT GGCCGCGGGG CTCTCCAGAA 180
CATCATNCCT GCCTCTACTG GCGCTGCCAA GGCTGTGGGC AAGGTCATCC CTGAGCTGAA 240
CGGGAAGCTC ACTGGCATGG NCTTTCGTGT NCCCACTGGC AANGTGNTCA GTGGTGGTNC 300
NGANCGTN 308

```

(2) INFORMATION FOR SEQ ID NO: 5009:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 336
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05980

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5009:

```

GATCCGATTT GTGGAGGATG AGAAAGATGA AGAAGACAAT NAGACGAGAA CACTTCTAAG 60
GCGAGCCACT CCACCCCAG GGGAGTTAAA GCACATGAAA AAGACAGTGG AGAATTTACG 120
GAATGACATG AATGCTGCTA AAGGACTGGA CTCAAACAAA AACGAGGTCA ATCATGCCAT 180
TGACCGAGTG ACCACTTCTG TGTAGAGTTT CACCTCCAAG TTTTACCTCC TGTGTCTTCC 240
TCTGCTGTG AGACGTTTCT GTCTGCTTNC CGGGAGCCTC ACGTGCTCCT TGTCTTAACC 300
AGCCCCGNG NGCCATCTTT CCCGTGGAGT GTTGTN 336

```

(2) INFORMATION FOR SEQ ID NO: 5010:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 327
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05981

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5010:

```

GATCGCTTTT NTGACTGTTC ATCTGTCCTT GACAGTGGCT GTCATATTGA CTACTTTNTT 60
GATTTGTTGG TATTGGGGAC ATTTTAAAGG CTGAGTTATT TTTGAATGTC ATGTTTATGT 120
CATAGACGTA GTTTTCGCAT CCTTGAATTA AACTGCCTTA ACTCCTTTNG TGGTATAAGC 180
AAACTCCAT GGNCNNNGTC CTGGTATCCT TTTCTGTGT GGTGCCCCTG TGTCTCTGG 240
CCTAGGGTTA AGTNTGCAAG ATAATACTC GTGAGTATTC AGAATGTNGT NCCTAATAAA 300
TGCACTTGTN GTCTGTCTTC TTTTNN 327

```

(2) INFORMATION FOR SEQ ID NO: 5011:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 326
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05982

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5011:

```

GATCAAGTTT TAAATCCTCC TCCTTCCCTT TTTNCTGGAG TTTTGAGGGC CAGAGTTTTN 60
NTTTTTNTTT TTGTTTTTGT TTTCTGCTT GCTACTGTTT TGTGGTGTG AAAAGTGGTT 120
TAAACCTGAG ACTAACTTAA ACACCTCCTT GACCTTCTNG TTGCCTGTNC ATTTTTGTGC 180
CAAGGAAGTA GCTGCCCCAG TGTATGTCTT GCCTTCTCCG CGTCATTGTT GGAAGAGGAG 240
AGATGCATCG AGCAGTCCCA GCTGCTTTTC ATTTATAACG GCTTCTTTCC AGGACCTGAC 300
AGAAGTCAGG GAAGAGTCCC TGGGNN 326

```

(2) INFORMATION FOR SEQ ID NO: 5012:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 326
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05983

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5012:

```

GATCATTTGA CTGGGCTGGA GAACATCCTT TTACATGGCC NTCCCATGGA TGTGCTGTAC 60
ATCTGCTTAA AAGAAAATAA TTACTTTNAT GAGCGTCTTC AAAAGGACTC TTGGTGCAAC 120
AGACTNAATT GGAACTCAGC TTTTCTAACT GTCACTGCAC CAAGCTCTGC TGGAGGAGTG 180
ACCAGACTCA CGATTGGTA TAGTGGGGCT CTCAAGCATC TTCAATTTGA ATGTACATGC 240
TGCTGAGGAG CCGGTGAAGT CATCAGTTCC GCACATCCCT TCTACCCTNC AACTGCATGG 300
GAAGCCAAAG TNCTGGTTTT GAAGAN 326

```

(2) INFORMATION FOR SEQ ID NO: 5013:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 327
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05984

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5013:

```

GATCTGGGGG CTAGCAGTGA GTACCCGCAT GGTATCAGCC TGCCTCTCCC GCCCAGCCCC 60
TGCTGTCTCC AGGCCTATAG ACGTTTCTNT CCAAGGCCCT ATCCCCCAAT GTTGTCTAGCA 120
GATGCCTGGA CAGCACAGCC ACCCATCTCC CATTACATG GCCCACCTCC TGCTTCCCAG 180
AGGACTGGCC CTACGTGCTC TCTCTCGTCC TACCTATCAA TGCCCAGCAT GGCAGAACCT 240
GCAGCCCTTG GCCACTGNAG ATGGAAACCT NTCAGTGTCT TGGNATGACC CTACCNAGGT 300
GGTGGGTCTC CAACANAGCC ACTTGTN 327

```

(2) INFORMATION FOR SEQ ID NO: 5014:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      293
(B) TYPE:        nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05987

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5014:

```

GATCTCAAAA AAGAAGGAAT TTCTCCTTTG TTTCTTGCGAG TTAATGTAAG AATACTTTTAA 60
ATCTCTAAGC TTCTGAAGTG TTAGAGGTAG AGATGGTCTA GTAAAGATGT AGTAGTAATG 120
TTTTATCCAT TTAGCATGTG TTTATNTNTC CATATGTNCT CAAAGGTGAC TTATTGGTTC 180
ACCTCAGTGA TATTACAGCT AAANNNTCA TTCATTAGCA AAAGGNAAAG TGGTCTCAAC 240
CTAACATCAG ANGTGTTTCT NATTATGNTN TNATATTGCG TTGGANTATT GGN 293

```

(2) INFORMATION FOR SEQ ID NO: 5015:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      71
(B) TYPE:        nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05988

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5015:

```

GATCTATACA GGTATGTCTG ACGGGACGCA GCACCGTGGG CACGCACCAA ATAGAGTTTT 60
TAAAGAGAAA A 71

```

(2) INFORMATION FOR SEQ ID NO: 5016:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      354
(B) TYPE:        nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS05989

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5016:

```

GATCCTNTTC TTTCAGCAGG TGAAAAATAA AACGCAGTTC AAATTTTCATG GTTTTAAATTT 60
TCANCTCAGA AGCACTCAAA AATGCAAAAT GTGATAATGG GCACTTGTTT AAAAGANTTA 120
GTGTATCCAG CCTTCACTCC AGCTGGTTAA AAATGTTGCA CTTNTCAGCA ACCCTACCAC 180
TTTCATCTGC TGAAAGGNCA NATGTGCTTG GTTTTACNAT TATGTAATCA CAACTTACTT 240
TCTGCTTGTN GTNGCTTAAA ATTATGTATT TGGTCTTTGG GCTGCAANTT GGTTTTATGC 300

```

TGGATTTGAT GNTNACTGGC NGNNAGTTTG ACCTTTGCTG NTATGGGGAA ANTN

354

(2) INFORMATION FOR SEQ ID NO: 5017:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 149
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05991

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5017:

GATCGGAAGA GGGAGGAGAG GCAGTCTCTT NACAAAATAA AGTATTTTAA TTCATTTNTA 60
 TTTATTAAAT NAAAAAACAA TCCCATGGTG TCCCTNTTGT TTGGTGGAAC CTAATGACTG 120
 TNGAAATAAA GTCCTGTNTT TNCCCTAAA 149

(2) INFORMATION FOR SEQ ID NO: 5018:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 259
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05992

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5018:

GATCCAAAAA CCTCCACCAT AGAGACTGAT AAATTGTAGC TATTGAAGCT GTACTNCTTT 60
 GTACATAGGT GCTTTGGGAG ACTCACTCTG ATTATTGTAA ATTNCTCAC TAGCTACCCA 120
 ACATTAAATT CAAATAACAG AGAATTTCTA TTGTACAGCC TTGCAACTTT NCTTTAAGTT 180
 TAANCTTTNC TNAAAATAA AATTTTAAGT GGCAAAAATN ATTATTAGAN GAGAAAANGT 240
 GTGCTCATT TTNANTATN 259

(2) INFORMATION FOR SEQ ID NO: 5019:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 173
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05993

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5019:

GATCACCTGA GGGGAAAGGN TTGTNTCTCT CCTTTCTGTT GGGNGAGGGG GATGGGGGAC 60
 TTTTNTTGGT GGCTCCACC CATATATCCC TCCTTNACCA TAGTACTCCC ACCCACTTCC 120
 ATCACCCATC CAATAAAATG CAGCCAGGTT TAGCCTTTGG CTTTGGTCAC AAA 173

(2) INFORMATION FOR SEQ ID NO: 5020:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 266
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single

(D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05994
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5020:
 GATCTACCCT CTAGTTTACT TGCTCGGGAG AAGAACTGA CTCGTTTAT TTAGTGCCTA 60
 TTTAGCGAGC CCAGAGTAAC GTACATTTGT NCTGTTTCA ATTTGTGCT ATCGCAAATC 120
 ACAAAAAAAC TGTTATCAAT TCACATTCAT CATCAGCAG AGACCCATT CCTTGTGCTC 180
 CTGCCAGCTC AGGNTATNAT GTTTCTTTTT TCATGTTGC CAGTCTGTTA GGTAAAANGT 240
 CATATGCGGT TGTTTAAATT TGCAAA 266

(2) INFORMATION FOR SEQ ID NO: 5021:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 121
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05996
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5021:
 GATCAAGGTG ATTCTGAAAG TTTTAATTTT TAATGTTGTA ATGTTATGTT ATTGTTAATT 60
 GTACTTTATT ATGTATTCAA TAGAAAATCA TGATTTATTA ATAAAAGCTT AATTCTCAA 120
 A 121

(2) INFORMATION FOR SEQ ID NO: 5022:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 58
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05997
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5022:
 GATCTAGTTG TATTTCTCAT ACTAGCAATG AACAATTGGC AGTTGAAGTA AAAGCAAA 58

(2) INFORMATION FOR SEQ ID NO: 5023:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 238
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS05998
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5023:
 GATCGTAATA TCTCGAATC TACATAGACA CTAAAACCT TTAGTTGTAT TTCATCAAAA 60
 ATCTGTTTAT GCCCAGGTT GGTTTCAAAA CATACTATGC TTTNCTTCG TGTTATTTCC 120
 TATATNCATT TTNGTGTGTA TGTGTATGTC ACAAATATTG ATATGCCTGG TTGTTTATTT 180

TGGTNTGCTA TTATGCCTTT TTCAAAATAT AAAANTAAAC TNGTAANTNC TAACNAAA 238

(2) INFORMATION FOR SEQ ID NO: 5024:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 198
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS05999

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5024:

GATCGAGACC AGCCTGACCA ACATGGTGAA CCCTGTCTCT ACTAAAATAC AAAAATTAGC 60
 TGGGCGTGTT GGCACACACC TGTAATCCCA GCTACTCAGG AGGCTGAGGC AGGAGAATTA 120
 CTTTAACCTG CGGGGGGAGC CTAGATTGCG CTACTGCACT CCAGCCTAGG CAACAGAGGG 180
 AGACTCTGTC TCATTAAA 198

(2) INFORMATION FOR SEQ ID NO: 5025:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 301
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06000

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5025:

GATCTTGTGT CAAGTTAACA GGAAGACTGC CCACAGATGA CACTGCATTT GTATCCCTGT 60
 GGATGTAGAG TATTGGGAAG GCATTNTTTT AGTTTCATGC CTCCAAACCA TGCATTGTCT 120
 GTNATGTATC TGCCAGCCT TCTCAGAACT CAATGTTGTA CATTTTCCCT TCTAGGACCT 180
 GAATTGGTCT TGGAGGCAGC TTTTAGAAAT CCTCTATGTA GTTCCTGTCC ACATGCACTA 240
 TATATNGGTT TCTCCNNGNN CCTCTCATGA ATCTGCTCGT TTCTCTACNT CTTGGCTACG 300
 N 301

(2) INFORMATION FOR SEQ ID NO: 5026:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 301
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06001

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5026:

GATCCTGGTA ACTGTTCCAG GATTGCTCCA GGTGTTGAGAT GGTATTGCTA AATTTAAAAT 60
 TAAACAAGAG ACCCAACAAC AGCTTTTAAA GTGTCTTCTA TNGCATTGTA TTTNNNTNAA 120
 CTTGCCCCAA TGATAGAAAA GTCTTTTGCT GAAATNATTT TNATGATTTT GGTTTATCGT 180
 TTATAAAAANG GAAAAGANAT ATACAACTT TGACTTTGGT GACTTTGTGA AGGTTTCTTT 240
 AAGATGTGCA TTCCTTTCTG CTTGCNCTCT AGTAAAGGNT TTACTIONG GAAAAAAAAG 300
 N 301

(2) INFORMATION FOR SEQ ID NO: 5027:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 117
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06004

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5027:

GATCANGAAA AAGACAAAAT CTNTCAAAGC CTTCAAACC AGGAAAAGAT AAGGAGCCCA 60
 GGAAAAGNAA AAGGTAAAGT TCGAAGAANT TTAACCATT TTNACTAGCG ACAGCAN 117

(2) INFORMATION FOR SEQ ID NO: 5028:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 231
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06005

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5028:

GATCAGGAAT GGTGTGGATT GAGAACTTGT TACTTGAAGA AAAAGAATTT TGATATTGGA 60
 ATAGCCTGCT AAGCGGTACA TGTGGGTATT TTGGNGTTAC TTAAAAANNA TTTTNGGGAT 120
 AAGAGAATTT CAGCAAAGAT GTTNTAAATA TATATAGTAA GTATAATGNA TANTANGTAC 180
 AATGGAAAN ACAATTATAT TGTAATAA TANTCTGGGCA AGCATGGNTG N 231

(2) INFORMATION FOR SEQ ID NO: 5029:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 194
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06008

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5029:

GATCATGGAA CAGAATCACC CTCTCCTGCA TGTTTTNTT TCTGTCTCCT GCTTTNCTGT 60
 TCTTTTCCA CTTTCTCTAT GTGTGAGTTG ACTTGGCTGC CTGTAGCTTC ATCGTCAAAG 120
 CTGGTCCACG TGGGNTCAAC TTGGTGCTCT CACTCTCCTC CAGCATTGTT TTTGGCATCA 180
 AAGCTAGAAT TAAA 194

(2) INFORMATION FOR SEQ ID NO: 5030:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 89
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06010

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5030:

GATCNTTTTT AAGAGCGTTT CCATACTATG NTTACATTTC CATATTTNTA TGAATAATTT 60
 TGCATTCAAT AAACAACCAG ACTCAGAAA 89

(2) INFORMATION FOR SEQ ID NO: 5031:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 174
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06011

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5031:

GATCTTGGAG AGTTTCTCCT TGTGATTTTA GTTCATAAGT ATGTCACCTT TCATTTTATA 60
 GNGTTCATCA TTGAGTAATG GATTAAGTGA AAATCCAGGA GTATCCATCT NCAGTTATGT 120
 NCTGAGGTGA TAATNCATCC AACATATTTN TNAGCATAAA TATNANGCTT CAGN 174

(2) INFORMATION FOR SEQ ID NO: 5032:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 260
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06013

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5032:

GATCTAAAGC AGCCCTTTTT ACAGTCTAGT TAGGAGAGAG AAAATAATTG CAAATATCCA 60
 CTTAGAGGCA AAGAACAATT TTTNATTATC AAAAAGGTTT CTGCACATTG TTGTGGCAAT 120
 ATTTGTATCTG TTTAGAAAAT GGGCTTTTCC AAAAGCAAAC AAAGATAGGT TCCTCAGGTG 180
 ACCAAAAC TG AAAATCAATA TTTCCATGTT TCATTAATCA NGGCATAAAA TACAATTAAN 240
 GCAAAATATT TTACATTAAA 260

(2) INFORMATION FOR SEQ ID NO: 5033:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 85
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06014

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5033:

GATCTCTGGA GGTGAGGCT GCAAGTGAGT CATGTTCGTG TCACTACACT NCAGCCTGGG 60
 CGATAGAGTG AGAACCTGTC TCAA 85

(2) INFORMATION FOR SEQ ID NO: 5034:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 352
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS06015
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5034:

```

GATCCAGAAC ATGACAACAG AGAGCTGCGT CCACAGGGAA CAAAGCCCTG ACCTNTCTCT 60
CCACATTACC CTTACAAAAA CAGGCCCTCC CCATGAGAGA GCTACACGGC AGGGGCAGAC 120
ACTGTGAGTA TAAGCTACTT TCCTCCCTGG AGTGCTCTAT GTGGGCAGAA CATGCTCTCC 180
TTGCCTCTCC TGGAAGGTGT CTTCTCTATG GCCTGGCTAG AGCTGNAAAA AAGGGACACA 240
CCCNACTTCG GTAAAAGAAA NTAGGGAAAG GCCATATACA NNGNCAGACT TTGTAGTTTA 300
TTTTGTATTT TTTTNTAAAT NNTTTNCACT TTTACATTTA ANGGNAGATT GN 352

```

(2) INFORMATION FOR SEQ ID NO: 5035:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 206
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS06016
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5035:

```

GATCTTAATG GCAAGAAGGC CACAGAGGTA CTTTNCCTTN TTNAGCTCAG GAAAATATGT 60
CAGGCTCAAA CCACTTCTCA GGCAGTTTAA TGGACACTAA GTCCATTGTT ACATGAAAGT 120
NATAGATAGC AACAAGTTTT GGAGAAGAGA GAGGGNGATA AAAGGGGGAT ACAANNGATG 180
TACAGAAATN NTTTCCTGGC TGGNCN 206

```

(2) INFORMATION FOR SEQ ID NO: 5036:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 351
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS06017
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5036:

```

GATCTGGCCA TGTATATGGT AGCTGTGTTT TAATTTGAGA ATCTTGAGGG TAGAGCCACA 60
AATTTCAATT CTNACATTTT CATTGCAAA GTGACTAGAG AAAAAGAAAT CAGCTTAAAT 120
GAGGTATTAA GTAATGTTTA GAGTCGTAGG TATTAAGTAG AATATAAATC CTTAGAAATT 180
GTCTTTATAC CTTCAAAAAT TATNCTATGC ATTTNTCATA GANCTGTGAT TACAANGNNG 240
TCTGACTACC ATGTCTTTAA ACATATGGCA TCTCTCATCT TTCCTTCCCT TATGGGGGCT 300
ACATTTNGTN CCATTTTCCA GNAGTAGNCT TTAACCTNCC GGTGCCNNNC N 351

```

(2) INFORMATION FOR SEQ ID NO: 5037:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 131
 (B) TYPE: nucleic acid

(C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS06018
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5037:
 GATCCTGAGA CTATNTGCAT GCTNCTNTCT AAATGATAAT TAANAGGAAA TTTCATGGAT 60
 TAACCCATGG GTTTAATGCA GCAAGGAAAC TTACAATGTC CCTNTATATA TAACATGCAN 120
 CTTGTTTTGG N 131

(2) INFORMATION FOR SEQ ID NO: 5038:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 208
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS06020
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5038:
 GATCCTNCAG GAGATTCAGC GTCTCCGCCT GGAACACGAG CAGGCCTCCC AGCCCACCCN 60
 TGAGAAGGCA CAGCAGAACC CCACGCTGCT GGCAGAGCTG CGGCTGCTGA GGCAAAGGAA 120
 GNATGAACTG GAGCAGAGGA TGTCGGCCCT GCAGNAGAGC AGGCGGGAGC TGATNGTCC 180
 ANNTGGAAGA GCTGATGAAG TTGNNCNN 208

(2) INFORMATION FOR SEQ ID NO: 5039:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 150
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS06021
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5039:
 GATCTGAGTG ACAGGGTCAA GTTCTCTTTG AAAACAGGAG CTTTTCAGGT GGTAACCTCC 60
 CAACCTGACA TTGGTACTGT GCAATAAAGA CACCCCCTAC CCTCACCCAC GGCTGGCTGC 120
 TTCAGCCTTG GGCATCTTCA TAAATGGAAA 150

(2) INFORMATION FOR SEQ ID NO: 5040:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 365
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS06022
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5040:
 GATCTGCTGG GTTTTAAGGA GTGATTNCT TTCTNCCCCT TGAAGGGGAA AAAGCTATTT 60

```

CAATTGGTAC ATTTAAAGTC CCCCAACTAT GGGGAGGTAC CAATTCTGGA CANNNTGCCA 120
CTACAACAAC ACTAAACCTG AACTTTTCAA CTCCGTTGGT GGTGGGAGGC AGCGGGCAGA 180
AATTTACTGT TGGCCACTGN CAGGTCTATT TNATATTTCA AAGGAATATT GGGTGCTGCA 240
TATAGGNACT GAAGGGGTCA ATGNATTAAA CCTGTGATTA GGTGNTTTC CTGTCATTTT 300
TGAGAGACTA AAATNGTGGG GGGGCAGATG TNCANAATAC CTGGTACANG TTTTAAAAA 360
NTGGN 365

```

(2) INFORMATION FOR SEQ ID NO: 5041:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      147
(B) TYPE:        nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06023

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5041:

```

GATCTTNACC TTATTCAGTC AACTCCCTTT AAACCCCTGG CACTGAAAAC ACCACCTCGT 60
GTACTTACGC TGAGTGAAAG ACCACTAGAT TTTNTGGATT TAGAAAGACC TCNNNCAACC 120
CCTCAAAATG AAGAAATCCG AGCANNN 147

```

(2) INFORMATION FOR SEQ ID NO: 5042:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      98
(B) TYPE:        nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06024

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5042:

```

GATCCGTCCT CATTTTATTG GTGATGATGA ATGGGAATAA AATNAGGGGG CTGTCTACTA 60
GAGCCTGGAA TAAATATGCT GCTTTGTGGA TTTTAAAA 98

```

(2) INFORMATION FOR SEQ ID NO: 5043:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      208
(B) TYPE:        nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06025

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5043:

```

GATCTGTATG TNAATATCGC CAAGCAGGAT ATCATGTTGT CCCTGGCAAA CCTGGTGAGA 60
CTCAACCAAG CCCTTTTTC CCACAGCAAG AGGAAAATGG AATCTNTGTA TCAGTGTGGT 120
TTTGATGACA CTGTTAAGTT TNTACTTAAA GAAAATTGGT TTGAATAAAA TGCATAAAAG 180
TTTATANTGC ATTNATTGT NNANNTGN 208

```

(2) INFORMATION FOR SEQ ID NO: 5044:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 211
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS06026
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5044:

```

GATCTTTGCC CACCTCTTCC TCAGAGCCCC CACTGAGGGG CCGTAGCCCT ATCTAGGGCT 60
GTGGAAGGAG CAGACTGGTT CCTAACTCTC TCCCTCCTCC TGCCACACA CATCAAAAGA 120
ATCTTCCCTA CACCCTTCTC TGCCTTTATT TTTTGATTG TGCAACTTGT AACTAGGTGT 180
TTATGGAGTA AAGGAGAATG GAAAAAGAA A 211

```

(2) INFORMATION FOR SEQ ID NO: 5045:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 345
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS06027
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5045:

```

GATCTTGTTT ACAGCAGTGC TTTTGTGAAC AATTATTTAT TTGCTGAAAG NGCTCTTCTG 60
AACTGTGTCC TTTTAATTTT TGCTTAGAAT AGAATGGAAC AAGTTTAAAT TTCAAGGAAA 120
TATGAAGGCA CTTCTNTTTT TTCTAAGAAG GAAGTTGCTA GATGATTCCT TCATCACACT 180
TACTTAAAGT ACTGNGAAGA GTATCTGTAA ATAAAAGGGT TCCAACCTTT TAAANAAGNN 240
GGAANAAACT TTTTGGTGCT CCAGTGTAGG GCTATCTTGT NNANAAANTG TCAACAAGGG 300
GGAAANGTAA GNCTGTCNAG CTNGGGGATT GGTCACCTGN NTTAN 345

```

(2) INFORMATION FOR SEQ ID NO: 5046:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 298
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS06028
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5046:

```

GATCTTATAA ATTCCTGGG CAAGAGTGTA TGCATACAAA GTTTTCACTN TTGTGAAATG 60
TAATTTNCT GTTTTGTCAA NGGGATGAGG TGATTGGAAT TGCTTTNACC ATGCTGCCTT 120
TATTCTCAA CTGGCAAAC TAGCATGTTA GGTGTATTAA CCTCATCAGT CTTGAAGAAC 180
ATGTGGCTCA TGAGTATAAC ACTTCTGTAG NGNNCNCCCN NACANAAGTG AAGAATTAAC 240
TTCTCCTNCA GAACAAGTGC ANTTCAGAAG GCAAGCTCTG CATTCTACCT TGNTTGAN 298

```

(2) INFORMATION FOR SEQ ID NO: 5047:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 153
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single

(D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS06030
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5047:
 GATCGGGGAG CCACAGGGTG TCCAGACCCA GCGGGAGCCG AGGATTCAGG AGAATCTCCC 60
 CAGTCAGCTT CAGAGGTGCC CACAGTNTGA GCTCTAGTGT CTNCCAGGTA GGGGGNCAAA 120
 GCGGNAANCT GNCCGGGCCT NGGGGGTGCA AGN 153

(2) INFORMATION FOR SEQ ID NO: 5048:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 351
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS06031
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5048:
 GATCAACATT CGCAATGCCC GGAAACACTT TAAGAAGCTG GAGAGAGTGG ATGGCCCCAA 60
 GCACAGTCTC CTTATGCGTT GAATATTGCC AAATNCTCTT NCTGAAAATC CTGAATTGCC 120
 TTTTNGTTT GCATCCTTTA TTTTNAATAT TCATAATGTC GTGTGCTTAA AAGTGGGCTT 180
 TGAAGTGTGT GCTGCTTACT CCTNTCATCT TTCTCCCCGC TTCCCCAGTC TTTAAACATT 240
 GGACGNTATT TACTCAGCTA CCCAGTAGAG CTTGAAGCTG ACCTTTCTGA GAAAGTTGGG 300
 TATGGTGGTA AACTTAAAG TAGGTGGTTC CGTGTGGTGT TCTTCANTNN N 351

(2) INFORMATION FOR SEQ ID NO: 5049:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 124
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS06032
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5049:
 GATCAACAAA TTGCTCAACC TGCAAAATCT TTGATTAGAC TTAGCCAGCC CATCTGGCCT 60
 GCTTTGGGTT TAAAAA AAAAANNTTT TTTTAACCNC ANAANTGGAA AAAGGGGAAG 120
 GGNN 124

(2) INFORMATION FOR SEQ ID NO: 5050:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 218
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS06034
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5050:

GATCATGACT ACTGGGTTGT CATTTC AATG GACAGTGCTA TGAAATAAGT ATTTTGTGAAA 60
 NCAACGGAAA TAGTTTATAT CGATATTTCT GATTCAAATT TANCCATCCA ATTGTTTAAT 120
 TAACCTTACT GATTTTTTAC CTATATCACT TTNCTCTNAC ACTGNAANTA TTAGTTCTAN 180
 TAGCATTATG NCANTTACCT ATGTTGCTTT ATGAANGN 218

(2) INFORMATION FOR SEQ ID NO: 5051:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 128
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06035

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5051:

GATCAATGCT GGCTTCCACG CCTGANTTCT ACCAAGTATG CCACACCAAA AAGGATTATN 60
 AAGAAATTGG ACCTAGCATT TNCGTCACA ATCCAGTGTT TGGAGTCATG TCGTAAAT 120
 GNCNCCNN 128

(2) INFORMATION FOR SEQ ID NO: 5052:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 234
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06036

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5052:

GATCTCATTG AGATTCCAAA GAGAATCATT TACAAGTTAA TTTCTGTCTC CTTGGTCCAT 60
 TCCTTCTCTC TAATAATCAT TTAGTGTTC TCAAAGAATT GTCTACATTA CCCATCTCCT 120
 CTTTGCCTC TGAGAAAGAG TATATAAGCT TCTGTACCCC ACTGGGGGGT TGGGGTAATA 180
 TTCTGTGGTC CTCAGCCCTG TACCTTAATA AATTTGTATG CCTTNCTCT TAAA 234

(2) INFORMATION FOR SEQ ID NO: 5053:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 145
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06038

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5053:

GATCTGCAAG GCATAGGCAA GCCTCTTAGA GAATCAGAAA AGTGATTGG AAGGAACTTC 60
 AGCTGTTACT ACTTTGTTTA AGCAAATCAA ATGCTGTTCT TTAATGTTAC TGGACGTTTC 120
 AAATTAAACA CAAGAAAACC TGAAA 145

(2) INFORMATION FOR SEQ ID NO: 5054:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 124

(B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS06039
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5054:
 GATCAACTGA AGACCCCCAA AGGCCCCTAC TTGATGGTTT TGAGGGGCAA CATTGACTCA 60
 TTTGCCCCNT CCCTCTCGGA ATGTTGGACA AAGGGAATAA AATTGGGGAT ATGTCTACTT 120
 CAAA 124

(2) INFORMATION FOR SEQ ID NO: 5055:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 118
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS06040
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5055:
 GATCTAAAC ANCTTCAGAC TACCTANGAA ATANTTNNAC CAAATAAGAA ACAGCACTGT 60
 GGAATAAAAT ATACCATTGT GAACATATCT GATGCTGCAA TGAAATGTAA AGTTCCTN 118

(2) INFORMATION FOR SEQ ID NO: 5056:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 316
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS06041
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5056:
 GATCTCCTAC TCCATCCAGT CCTGAGGAGC CTTAGGATGC AGCATNCCTT CAGGAGACAC 60
 TGCTGGACCT CAGCATTCCC TTGATATCAG TCCCCTTCAC TGCAGAGCCT TGCCTTTCCC 120
 CTCTGCCTGT TTCCTTTTCC TCTCCAACC CTCTGGTTGG TGATTCAACT TGGGCTCCAA 180
 GACTTGGGTA AGCTCTGGGC CTTACAGAA TGATGGCACC TNNNNNAACC CTCATGGGTG 240
 GTGTCTGAGA GGCCTGAAGG GCCTGGAGCC ACTCTGCTAG AAGAGACCAA TAAAGGGCAG 300
 GTGTGGAAAC GGCAA 316

(2) INFORMATION FOR SEQ ID NO: 5057:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 106
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS06042
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5057:
 GATCTATTTTC TTTNCACTTG TATAACTTTG NAATAAATNC CTCATCCCTT AGACTAAGAG 60
 AGTGGGTGTC TGTGAAATN GTNTTCTCCT TCATAATACC TAAATN 106

(2) INFORMATION FOR SEQ ID NO: 5058:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 74
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06043

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5058:
 GATCGAATTT AAAAGAACAA TGGAACCCTG ACTACGTTTC AACAAAAATA AACTNGTTT 60
 TTTTCCTCC TAAA 74

(2) INFORMATION FOR SEQ ID NO: 5059:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 325
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06044

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5059:
 GATCTCTGGC GCTGGCAGAA GCAGAATCCT TCAGGCTTTG GCANGCAAGC NTGAGGACCC 60
 TCCCCTACCA AGGACCAGGA AAAGCAGCAG CTGCCTGCTC TCCAGCCTNT GGCAGGAACT 120
 CAGGGCCCTG GAGCTGCTGG GGCCAAGCCA AGGCCTNCCC TACCTCAAAC CCCAGCTGGG 180
 CCCGNTTAGC CCACCAGGCA TGAGGCCAAG GGCTCCACTG ACCAGGAGGC CGAGGTCTCT 240
 AACTCTTATN TTCCACAGGG TCCAAGAGTT CATCAGGACC NNNAAGAGTG AGTTNAGGGG 300
 GGGCAAGGNT TCTNGNAACA AAAGN 325

(2) INFORMATION FOR SEQ ID NO: 5060:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 107
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06045

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5060:
 GATCTGCCTN TAAAGCCAGT TTAAGAAGCA CTNATGANAA CACCTGGACT GTGTATAGNG 60
 ATTGCACATT CTTATCCTT CAGCTNCAGG ACAGGTGGAG CAAATGN 107

(2) INFORMATION FOR SEQ ID NO: 5061:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 112
 (B) TYPE: nucleic acid

- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS06046
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5061:

```
GATCTCAGAG CATTTCATT AGGGATGCTC AAACGCAACT TTTCTACTT CCCCATTTCA 60
GGTGTGAGAT GTAACCCACC TTNACCATAA ATTGGCTTTN NATAGTGCTA AA 112
```

(2) INFORMATION FOR SEQ ID NO: 5062:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 298
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS06047
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5062:

```
GATCACAACA TACAAATTCA ATTCAGTGCA TGCTTTAGGT GTTAAGCATG AGATTGTACA 60
TGTTTACTGT TAGGTCCTTG CATCTGTGGT GCTAGGTGAG TATGAGAAGA TGTCAGGAC 120
TGGACGTATT TTGTTGCCTA AAAAAAAAAAG GNTGTTTGTN GCGGTTTTAA ATATGCTTAT 180
TTNGTGTGTC NCNNNCTACC TTTTACACAC TGTTGCTTTG TGGGTTTGT TNGNATGTGC 240
GTGTGTTATA CAGTNGTTAA ATTTCCNTGC AGAAAAATAA ATGTCCNGAA TTCTCAAA 298
```

(2) INFORMATION FOR SEQ ID NO: 5063:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 62
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS06048
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5063:

```
GATCTCCAG TGAGCCATCA CGATGCCCGN TTTCAAATAA ATNTTAATAT TGTCACCAGA 60
AA 62
```

(2) INFORMATION FOR SEQ ID NO: 5064:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 55
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS06049
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5064:

```
GATCTNCTGC CATGATGCCT ATTTGGTGTN TTTCTAATTA AAATGAAATC ACAA 55
```

(2) INFORMATION FOR SEQ ID NO: 5065:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 51
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06050

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5065:

GATCGCATCA TTGCACTCTA ACCTGGGCAA CAAGAGCAAA ACTCCATCAA A

51

(2) INFORMATION FOR SEQ ID NO: 5066:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 210
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06051

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5066:

GATCTGCTGA AAGGNAAGCA AGAACTATAA GGAGGNTGTG TAGTTGCAAA AATGGCTCCA 60
 TCGGTAAGTC AAGCTTCAGA ATGTTATGAC ATACAGAAAA TCAAAGATGC TGTGTCTTAG 120
 CATTGAGTAA TATGGGTGGT GCTGTCTGGT CAGATTCAGT NAACTGTTCA GAACAAAATT 180
 NCCTCTGAAA TNCNGTTGAG AAAGNCTGTN 210

(2) INFORMATION FOR SEQ ID NO: 5067:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 211
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06052

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5067:

GATCAAGTCA GCATTGCGGG TCGGGATTTG GGCAGGGAAC TTTGGGGTGC AAATATCTGG 60
 TGAAACCACC AGAGAATTN TTTGTCAAAG TGACATGTAT AATTTTAGTT GAGACGTGTT 120
 TGTGTATATA TGTGTATTTG CCTTTNTTTA GTAGCACGGT TATTTGCTAA AATAATTGTC 180
 AAAAAATTGC TCTGTCGGTC GGTCTTTGAT N 211

(2) INFORMATION FOR SEQ ID NO: 5068:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 230
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06053

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5068:

```
GATCTAGAAT CTTGTCCTCA GGCTTCTAGG GGNTTATCTG AGTCTTTTAT CTAAGACAAA 60
TGCAACAGTT TTCTTTTCAA ATGCTCAGAA AAATAGTGAT GATGATGATG ATGATGATGT 120
TCATTTGTAT ACATTTACAT GCAACCACAG CATTGTTTTT ATTATAATAC CTTAGCAATA 180
ACTAATGAGA ACATGTTAGG TGATGTTAA TAAATAATT TTTTCCCAA 230
```

(2) INFORMATION FOR SEQ ID NO: 5069:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 108
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06054

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5069:

```
GATCGCACGG ATGCAGCAGG AAGACCAGGA GGGGCCGCCT ACGTAGCCCC AGCTCCAGCC 60
ATCCACCCCN CAGCCCTTTN CTNCAACGTC ACCANTAAAT TTNTTTTN 108
```

(2) INFORMATION FOR SEQ ID NO: 5070:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 339
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06055

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5070:

```
GATCACTGTT AATGATTTGC CTGTGGGACG CTCCGTGGAT GAGGCTCTGC GGCTGGTCCA 60
NNNNTTCCAG TACACAGACG AGCATGGGGA AGTTTGTCCC GCTGGCTGGA AGCTGGCAGT 120
GACACGATTA AGCCCAACGT GGATGACAGC AAGGAATATT TNTCCAAACA CAATTAGGCT 180
GGCTAACGGA TAGTGAGCTT GTGCCCCTGC CTAGGTGCCT GTNCTGGGTG TCCACCTGTG 240
CCCCCACCTG GNTGCCCTAT GCTGACCCAG GAAAGGCCAG ACCTGCCCCCT CCAAACCTCA 300
CAGTATGGGA CCCTGGAGGG CTAGGCCAAG GNCTTTTTTN 339
```

(2) INFORMATION FOR SEQ ID NO: 5071:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 102
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06056

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5071:

```
GATCACAACC TCANCNAAGA CCACGANGAA GCCCNCAACA GCCACGCCCA CGACTGCCCG 60
GACGAGGCCG ACCACAGACG TAAGTGCAGG TAAAAATNGA GN 102
```

(2) INFORMATION FOR SEQ ID NO: 5072:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 231
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS06057
- (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5072:
 GATCGCCTTA ATACCAGAAA TGATTAGAAG TGCTGATTTA GATTCAACAA ATACCATATG 60
 TCCTTATCAT TTTTGTGAAG AAGAAATTGG TTAAGTCCTA ACTTTCAATG TGTACCCAAA 120
 TACTTGTATT TTATGCTTTT NATAAAATGT AATTTTCAGC ATTANTACAC ATCCGATTAT 180
 GCCTTATTTA TATATGGNGG ANTAAAGGTT ACCATGTTTA TACCTGTAA A 231
- (2) INFORMATION FOR SEQ ID NO: 5073:
- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 250
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS06059
- (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5073:
 GATCTTGTTT TCATGTGTTT TTGAAAGTGT TATTGTTTAA AAAATGAAAA AAGCATATNT 60
 GCTAAAGAGC TGTCAGGTTT TCATTACTGA CTCTGTANAA TACTGTGNTC TTTGTGTACT 120
 GTGTGTTATT TTGCCAGCT NGCTGCATTA GCCTTCAAAN GTATTGTTGA AACCTNAAGG 180
 ATGAACCTAC AGTTTCTNGC AAAGGTACCA TTNCCTTTCC TGGGGGTANT TTNGGTCCCN 240
 GTNAACTGGN 250
- (2) INFORMATION FOR SEQ ID NO: 5074:
- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 298
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS06060
- (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5074:
 GATCCTCGCG GGCCTCGGAG AATTCCCCCA CTGCCATGCC CTCCCCCAG TACCAGTGCA 60
 CTAAGGCGCA CTTGGCCGAA CTTATGGTCC AGGCAGGCCC AGGCCTCCGT GATGGCCGTG 120
 GTGTTGCTCA GCATGCACAC CGNCCGCTGC ACTTTGGCCA GGTCTCCAC AGGGACCACC 180
 GTGGGGGGCT GGTAGTTAAT NCCACCTGT CAGAGATGGG CAGCATAGAA TGAAGTTTAT 240
 ATTGGGCTCA GAAATGGGGA GTCATTAAA AATCAGAGCT TGTGGNACCA GTTNCAAA 298
- (2) INFORMATION FOR SEQ ID NO: 5075:
- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 80
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single

(D) TOPOLOGY: linear
(vii) IMMEDIATE SOURCE:
(B) CLONE: HUMGS06061
(ix) FEATURE:
(D) OTHER INFORMATION: "N"=unidentified base
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5075:
GATCACTGTG TCAAATGGAT GGGAAATNTT ATNTTAATAT AAACAGTAAA ATAGCATTGT 60
TTTCACTTGC AGCTTTNAAA 80

(2) INFORMATION FOR SEQ ID NO: 5076:
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 210
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear
(vii) IMMEDIATE SOURCE:
(B) CLONE: HUMGS06062
(ix) FEATURE:
(D) OTHER INFORMATION: "N"=unidentified base
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5076:
GATCTGTATG TNCAATATGG TAGCTACTAG CTACATACAT CTATGAGCCA GACACTTAAG 60
CACTTGANGT TTGGCTACTG CACATTGACA CATGGTGTTA GTAAAANCAT ACACTGGATA 120
CACTGGATTT TTGGNCTTAG TATGGAAAAA TATATTANGT ACCTCANTTT AAAAATACTT 180
ATTACATGTT AATATTTTGG TTGTANNNNN 210

(2) INFORMATION FOR SEQ ID NO: 5077:
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 91
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear
(vii) IMMEDIATE SOURCE:
(B) CLONE: HUMGS06064
(ix) FEATURE:
(D) OTHER INFORMATION: "N"=unidentified base
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5077:
GATCATGTTG TATTTNATTT TACTTATTTT TTTTACATT CC CAAGGCTC TGTCATCCAC 60
CTTTTCATTA AATCATTCTA CCAATCTCAA A 91

(2) INFORMATION FOR SEQ ID NO: 5078:
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 317
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear
(vii) IMMEDIATE SOURCE:
(B) CLONE: HUMGS06065
(ix) FEATURE:
(D) OTHER INFORMATION: "N"=unidentified base
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5078:
GATCAATGTA AATCCTCACC TGCCCTTTGA AGAGCCAATA AGGGCATCTT TGTCTTTAAA 60
TACAGCAAAT GTTATTCAGA TTTTGTACTT GTCTATCTGT TTACCTCAGT GTAGATGATA 120
TGAGGATGGN ATAACATATGT AAATTGTTTT TGAAAATAAT TTGTTTCCCC ACAACTTTTG 180
AAGGTTTTAT TTGTNGTTGT TATTACTAGT TCAGTCCCAA ACTNACCCTG TCCTTTTCAG 240

AGAGCTAATG GCCATGCTTT NCTTCAAAGG AAAGAATAAT TNATTTGGAA TGANAGTGGG 300
GATTACTTTG CATAANN 317

(2) INFORMATION FOR SEQ ID NO: 5079:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 75
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06066

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5079:

GATCTTTATT CTAACCTTTT TTTGTAAAN ATATCTATTG ATTTCCATAT GCAATAAACC 60
TTTTTTTCAG AGAAA 75

(2) INFORMATION FOR SEQ ID NO: 5080:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 139
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06067

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5080:

GATCGCACCA CTGCACTCCA GTCTGGCGAC AGAGTGAGAC TACATCTCAA AAAAAAANGC 60
CGCAATTTTN CATTGNTTC ANCAGANCTC TGCCATTCTA AACATTCTA AACTTTTACT 120
CTCAATTNCT GTACTTAAN 139

(2) INFORMATION FOR SEQ ID NO: 5081:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 125
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06068

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5081:

GATCTCATT TCACTTTAAG TAACTNCTGT TACTTAAGTG ATTGCACTTT TCTCAAATTG 60
AAGTTTAATG GAATAATAGT TCTCAGGATA GTATTTTGTA AATAAAGATG GNCTTGAATA 120
TGAAA 125

(2) INFORMATION FOR SEQ ID NO: 5082:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 284
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06069

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5082:

```
GATCCTACCA TGGCAAGAAG AGCTTCGAGA CTTTCTCTCA CCGCCGCTCT TGCCTGGTGA 60
GGCCTCTAAT GAATGATGAA GGCCTGAAGG TCAGATACCC CCCGAGCCCG GCCAAGATGA 120
CCCAGCACTG AGGAGGGGTT GCTCCGCCTG GCCTGGCCAT ACTGTGTCCC ATCGGAGTGC 180
GGACCACNT NACTGGCTCT CCTGGCCCTG GGAGAATCGC TCCTGCAGCC CCAGCCCAGN 240
CNCANTNCTA TGNTGACCTG CTGACCTGTG CACACCCNAC TTTN 284
```

(2) INFORMATION FOR SEQ ID NO: 5083:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 280
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06070

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5083:

```
GATCTAACCA TGACCTGTTT CACGTCATTC ACATTCAAAA TGAATGAAGG GATGANCATT 60
TTCTCTGGTC ATTTTTTATT ATTTATACCC TTTTGCAAAT NCTAGTAGAG AATGAAGTGG 120
AGGAATAAGT TATAAATGAA CAGTGGCTTA TGA CTCCAAG AGTTAATCGT GTTATTTTGG 180
TAGCTGTCTG TGTAGGTGTG CATGTNGTTG CGAGTTTGTA TTGNGNTTTA CAAGCAAAAN 240
TTATATNATG NTTCAACTTT CTGGAAATGC TTNTAATTTN 280
```

(2) INFORMATION FOR SEQ ID NO: 5084:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 62
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06071

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5084:

```
GATCATAATA TGAATNTCCC ACTTATTAAT AGCCTTTTAA TAAATATATA ATTAATTTCA 60
AA 62
```

(2) INFORMATION FOR SEQ ID NO: 5085:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 57
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06072

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5085:

```
GATCTATAAT CACCAGTGCA CTCCACCCTG GGTGACAGAA TAAGACCCTG GCTGAAA 57
```


(2) INFORMATION FOR SEQ ID NO: 5086:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 68
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06074

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5086:

GATCTCAGGA TTNAAGCACA GTGCCTGGCA TACAGCAGGT GCTCAATAAA TACTTATCAA 60
ATTGGAAA 68

(2) INFORMATION FOR SEQ ID NO: 5087:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 269
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06075

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5087:

GATCAAGGTT TAGTTTAACT TCCACTGTTA AAATAAAGCT TACATAGTTT TCTTCCTTTG 60
AAAGACTGTG CTGTCCTTTA ACATAGGTTT TTAANGACTA GGATATTGAA TGTGAAACAT 120
CCGTTTTTCAT TGTTCACTTC TAAACCAAAA ATTATGTGTT GCCAAAACCA AACCCAGGTT 180
CATGAGTATG GTGTCTATTA TAGTGAACAT GTACTTNGAG CTTATTGGTT TTATTCTGTT 240
ATTAGATNTT TCAGGGTGTA AACANGNNN 269

(2) INFORMATION FOR SEQ ID NO: 5088:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 151
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06076

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5088:

GATCGGCAGG GCAGGAATCT GAGCGCTGGC CCCGTGGTGA GGCCATGTTC TCATAATCAG 60
GCTCCAGCCA GAAAAATAAG AAACACCGCA ACAGGCTTCA GTATCAGGGC TGAAACTGCT 120
GGATGANTAA ACTATTTATT AAAAACGGAA A 151

(2) INFORMATION FOR SEQ ID NO: 5089:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 267
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06077

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5089:

GATCTTGGCT TAATTTAATG TATTAATCTG TTTGTGCAAA CATAGTACCA CCATTTAAAA 60
 ATGTTAGGGA GATGAGTTGC AGTTTTTATA ATAGATTTT TTTAAAGTTT GGTATTGTAA 120
 ANCATTACACA CCTCTGTCCC TCAAANTTGN TAATTACGGT TAAAGTGCAG TCATTTGTGG 180
 NTAGAATCTT GTTTNGTTGC TNCCATTATT GGGGTCCNCC NAAGGAATTG AGGAGAGGNC 240
 CGAATAGAGC CCAATTCNTA TAANGAN 267

(2) INFORMATION FOR SEQ ID NO: 5090:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 180
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06078

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5090:

GATCTCAGGG AAAAATTTTA ATCACTGTGT ATAATGATAC TGAACCTTGA TTAATAACAG 60
 AAATTCAGGA TGTAAGCCA CAGAATGGGN TTTATTAATG TGGGATACCT CAGACTGTTT 120
 GTTTTCTTTC TGGGNAGCAA AGTGTGTTCT ATAATGAATA AATATAGAGT GGTTTTTAAA 180

(2) INFORMATION FOR SEQ ID NO: 5091:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 121
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06079

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5091:

GATCTTCCTG GNACCCTGAG GGTCGTCCTC CAGCAGGGGC TTCTTNGACC CCTGTCTGAG 60
 GGGTCGCGTC TTAGTGGGCG GGATTCTTTT CCCTTTGAAT AAAAATGGAT TCAAACCCAA 120
 A 121

(2) INFORMATION FOR SEQ ID NO: 5092:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 378
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06080

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5092:

GATCTGTNTT GTTCCTGCAG CAAAATCCT CTATGGACAT AGGAGGTGCT GTGTCCCATG 60
 CCCTCTTGCC CTGNCAGTGT CCCATGGGCC CCCTTCTGCT CCCTGCCCCC TCCCTGCTAC 120
 TGCTGATGCA CTGTCCTCTC CCTGCAGCCC CTGGCTTCN AGCCTTCCTC CTGACCCCTT 180
 CCAACAGCCT TGGAACCTCA GCTGCCACCA CCCTNTGGGT CGGACACTGG GACCCANTGG 240

NCCAGTCTTG GNTGCTGNTT ACCCCTAGCC TTGATGNCTG CCCAGGGGAC CCCNAGCCCN 300
 CTTGNGTTGN CNTGCAGCTT TAACAGAGTG AACCATGTGT ATTGTACAGG CGGGGGTTGT 360
 TAATTGNAGA AAACNNAN 378

(2) INFORMATION FOR SEQ ID NO: 5093:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 81
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06081

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5093:

GATCACACCA CTGCACTCCA ACCTGGACAA CAGAGCAATA TTGTGTCTCA AAAAATAATA 60
 AATAAATAAA TAAATAGTAA A 81

(2) INFORMATION FOR SEQ ID NO: 5094:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 302
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06083

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5094:

GATCACCCGG AAGTTCAGGC TGAATTCTGA AGGCAAACTT GAGCAGACGG TCTCCATGGC 60
 AACCACGACA CAGCCAATNA CTCAGCATCT TCACGTCACC TACAAGAAGG TGACCCCGTA 120
 AACCTAGAGC TTCTGGAGCC CTCGGGAGGG CCTGGCTACT GTGCCTCAAC GGTTCGGGCTC 180
 CTCAACAGAC AGTCCCTGCG GCAGAAGTGG GTGTGGCCGT GAGCCTCTGC AGGCTCAAGA 240
 GTGTTGTCCA GATGTTTCTG TACTGGCATA GAAAAACCAA ATAAAAGGCC TTTNTTTTTA 300
 AA 302

(2) INFORMATION FOR SEQ ID NO: 5095:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 55
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06084

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5095:

GATCTGACTT CAGTTGTGCA GATNACAGCA TGATAAATGA GTCGGGACCA TCAAA 55

(2) INFORMATION FOR SEQ ID NO: 5096:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 145
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single

- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
- (B) CLONE: HUMGS06085
- (ix) FEATURE:
- (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5096:
- ```
GATCAACAGA TGCTGGCAGA AATGGCTGTN TCCCTGGCCT TGAGAAGCAG ATNCAGCTCC 60
CTGTCCCCAG AGGCCTACAG TCATATGGTA CCNCCACAGN CTCGCTTGGN TGCGCTACAG 120
GAGGCGGCGT CANGGAAGCT TNCTN 145
```
- (2) INFORMATION FOR SEQ ID NO: 5097:
- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 199
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
- (B) CLONE: HUMGS06086
- (ix) FEATURE:
- (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5097:
- ```
GATCTCATGA GAATTCATC ACTATTATGA GAACAGCATG GGGAAAACCN CTCCCATAAT 60
TCAATCACTN TCCTCTCTCC ACACGTGGGG ATTACAATTT GAGACAAAAC CTGGGTGGGG 120
ACACAGAGCC AGACTATATC AGGGGGCTTA TGTTTATCCA NTTGTNATGG CCTCACTTNT 180
TGNAAGACT GTNCTNNCN 199
```
- (2) INFORMATION FOR SEQ ID NO: 5098:
- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 249
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
- (B) CLONE: HUMGS06087
- (ix) FEATURE:
- (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5098:
- ```
GATCACAGAC TGTAGAGTTT TGAAAAGTCA CTTTTATTTT NAATTATTTN ACATATGCAA 60
CATGAAGAAA TCGTGTAGGT GGGTTTTTTT TTNAAATAAC AAAATCACTG TTAAAGAAA 120
CAGTGGCATA GACTCCTTCA CACATCACTG TGGCACCAGC AACTACTTCT TTATATTGTN 180
CTTCATATCC CAAATTAGAG TTTACAGGN CAGTCTTCAT TTACTTGTA ATAAANTATG 240
ANTCTCAA 249
```
- (2) INFORMATION FOR SEQ ID NO: 5099:
- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 109
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
- (B) CLONE: HUMGS06089
- (ix) FEATURE:
- (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5099:

GATCTGCAGT CCTGCCTCTG CCACAGTCTC TCTGTTGTCC CCACATCTAC CCAACTTCCT 60  
GTACTGTTGC CCTTCTGATG TTAATAAAAG CAGCTGTTAC TCCCACAAA 109

(2) INFORMATION FOR SEQ ID NO: 5100:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 341
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06090

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5100:

GATCACGGAC GTGCAGCTCG CCATCTTCGN CAACATGCTG GCGGTGTCGC TCTTCTTGCT 60  
TGTCGTTCTC TATCACTACG TGGCCGTCAA CAATCCCAAG AAGCAGGAAT GAAAGTGGCG 120  
CTTTCTCCGN CCCAGGGTTC CAGGACATAG TCTGAGGCAA GATGGAGGGT ATGTGGGGCC 180  
TTCACACTTC ACTTCATCCC TTCTACCCAT CACANCATAC AAAGCANCTA CACCTGGATT 240  
TTTCCAAACA ACTTTTATTT CCTCAGAGTC NGNNGNAATN CTATGGNNCA AGANGCTGNC 300  
ACTGAATAGG GCCNAGTATA GGGGCTTGCT TTTCTACTCT N 341

(2) INFORMATION FOR SEQ ID NO: 5101:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 117
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06091

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5101:

GATCTGGTAC CGCAGTAGCG CCGCCGCCGC CGCCGNCGGA GCCTGTCGTC GTCCTGTCCC 60  
CAGCCTNCTT GTGTCCCGTG AGGTTGTCAA TAAACCTGCC CTCGGGCTGC CGGCAAA 117

(2) INFORMATION FOR SEQ ID NO: 5102:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 151
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06092

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5102:

GATCCAAAAG GACTCATCTA AAACACAAGT TGGGTAGAGG AGATAGGTGA GTACTATTAT 60  
ATTATGTTCA TGGAAAATNA GTTCATGGGC TTTCTCTAA TTTTATTTT AAAAATAAAT 120  
GTAAATATTA AATAAAATTT TTAAATGAA A 151

(2) INFORMATION FOR SEQ ID NO: 5103:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 86
- (B) TYPE: nucleic acid

(C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06093  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5103:  
 GATCAGCTTT TAATATCTGT CAAATAAAAA TTGAAATTGA AGATGGTATA TAAGATTTC 60  
 GNAATAAAC TACTCTGAAT ACTAAA 86

(2) INFORMATION FOR SEQ ID NO: 5104:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 210  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06094  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5104:  
 GATCTAATCC GTNTCCACA TGTCCAGGG AATCCNAGGT CTGCCCTGAG CTCCTGTGT 60  
 CCTTGGNAAA GTCGGTTAAT CTCTGGGCCT CACTGTCCTC ATCGCTGAGC TTGGGGACTT 120  
 GTAACANATG ATTTCTAAGT ATCTNCCAGC TTTGANTAGA GCATTTGTNT TGGGTGGCCA 180  
 GGCTTAANGT TTAAAGGCAT AANGAAAANN 210

(2) INFORMATION FOR SEQ ID NO: 5105:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 242  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06095  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5105:  
 GATCATATTG GTCATGTCTA TTGGTGTATT ATTCAGTAT CACCAATGTT TTCAGAAATA 60  
 CAGTACTAAT TCATCATTAA ACTCTTTGAA GTTAATATTT TCCTGCCTTC TAACTTATAG 120  
 ACTCAACTAT GTATCTGTAG TTTTGGGAA TGGGGTGGTG TTTTNNCTT TGTGTTGGGA 180  
 AGTTATTGAG AAAACCTATA TAATANAATT NAANATTATA GTTTTAAAAA AANNNCANNN 240  
 NN 242

(2) INFORMATION FOR SEQ ID NO: 5106:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 219  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06097  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5106:

```

GATCTGCCCT TGGCCTCCCA AAGTGTCGGA ANNACAGGCA TGNGCCACTG AGCCTGANCC 60
ACTTTAGCTA TTTTNAAAAA TAGGACCTAT TGTTTTGGAT TACTATCTGA GAATTCATG 120
GATTCACCTC TGGGTATAGG AGNTAAGAAT ACGTTTAATT CATAACTTTT ATATTANCCA 180
ATATAGTAAA AAAATAAAGC TCACACATAC ANAANCAAA 219

```

## (2) INFORMATION FOR SEQ ID NO: 5107:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 227
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06098

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5107:

```

GATCTATTTT TTGGGCTTTT AATATTCTGT TCCATTGACC TATNTCNCTT NTCTTTTACC 60
AATACCGCAA CATCTTGGTT ACTGTAGCTT CACGGTAAGT CTTAAACTT GGATATTGTC 120
AGTCCTCCAA CTATGTTCTA CTCCTTCAAT ATTGTGTTGG TTATTCTGAG TCTTGNNGGG 180
TCTCCATATA AATNGTAGAA TTAGAAAAAA AANNNGGGGG GGGANNN 227

```

## (2) INFORMATION FOR SEQ ID NO: 5108:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 135
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06100

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5108:

```

GATCAGTTTG GACTCTGTAA CTCATAGGTG CATTCTTTT TTCTTTGGTG TCTCACAAAT 60
NACCCAATTG TTGAATAAAA CTATAAATAT GTTAATACCA GCTTTTTCCT ATAAAATAAC 120
AAATGTTACA TCAA 135

```

## (2) INFORMATION FOR SEQ ID NO: 5109:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 167
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06101

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5109:

```

GATCTNATGG GTTTAAAAGN GCGGCATTTT CCTCCNCTTT CTCCCTCTCC TGCACCATGT 60
TAAGATGTGC CTTGCTTCCC CTTTGCCTTC GACCATGATT GTAAGTTTCC TGAGGCCTCC 120
CCTGCCATTC AGAACTGTGA GTAAATTAAA TCTCTTNNCT TTATAAA 167

```

## (2) INFORMATION FOR SEQ ID NO: 5110:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 101

(B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06102  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5110:  
 GATCTTCTGC CACCATCAGG GNCAAACGGG TGCAGGAGGA AAGTCACTGA TGCCCAGATG 60  
 TTTGCNTCCT GCACAGCTAC AGGTCCTTAA NNAAAAGTNT N 101

(2) INFORMATION FOR SEQ ID NO: 5111:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 172  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06103  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5111:  
 GATCTGTGGC TACTTTTACA CCACAACAGA GTACCATGGT TCTGACAGAG ACTAGGAGAC 60  
 ACAGTCTAAA TGACTTCTGA CCTGGACCTT TACTGAAAAT CCTGCCAATC ATTCTGTTGG 120  
 CAAGANTGAT GTATTACTTT TAGCAATAAG AAACAAGTAA CCTTGCAGA AA 172

(2) INFORMATION FOR SEQ ID NO: 5112:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 74  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06104  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5112:  
 GATCTCCAAA GCTGTCCTCT GGCGTCCAGG AGTGCTCTT ATGTGAGTCC TAATAAACTC 60  
 ATCTATTCAC CAAA 74

(2) INFORMATION FOR SEQ ID NO: 5113:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 134  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06105  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5113:  
 GATCTNTTCC CACCCATAAA AAGCCAGAG AACAAAAAGT TGGCCAGGA AATGCAATTN 60  
 GGAAGCTGAA GAAGATTATA GTATTNTNG CAGTCAAGAT TTGAAAAGTT ACCNACTAAG 120  
 AAGCTACAAT ATNN 134



## (2) INFORMATION FOR SEQ ID NO: 5114:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 186
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06107

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5114:

```
GATCTTGAAA TNAACATAAG ATTTTCCTGG GGAAATGTTT AGATACAGTT TTGTGAACTG 60
TAAATCAAAA TACCTTTTNC TACAGTTTAT CTTTATNTTC CTGCAAATTT AGGAACATAT 120
TTCTCGTTT NCACATTGAA TCTTAAGTTT AAGCNCCTCA TTTGGNATTT NGGCAATATA 180
TGNGAN 186
```

## (2) INFORMATION FOR SEQ ID NO: 5115:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 275
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06108

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5115:

```
GATCTTTTNG ACTAGAGTTA GTGTCCTAGG AAAACCAGAA CTCAGAACTT GCCTCCATGG 60
TTGAGTAACA AGCTGTACAA GAACCCCTTT TATCCCTGGA AGAGGCTGTG TATGAAACCA 120
ATGCCCAGGG TTTGAAGGGT GTTAGCATCC ATTNCAGGGG AGTGTGGATT GGCTGGCTCT 180
CTGGTAGCAT TTTGTCCTNA CACACCCATC TACTATGTCC AACCGGTCTG TCTGCTTCCC 240
TCACCCCTTG CCAATAAAG GNCAAGNNCT TCAAA 275
```

## (2) INFORMATION FOR SEQ ID NO: 5116:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 122
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06109

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5116:

```
GATCGAGTGG TCTGTGTTCC TATTGCTGGT GGGGTGATAG GGTGGGCTAA AAACCATGCA 60
CTCTGGAATN TTTTGTATTT TCTCCAGTA AAGCTTTTCT TCTCCCGAAA AAAAAAAGA 120
AA 122
```

## (2) INFORMATION FOR SEQ ID NO: 5117:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 94
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06110

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5117:

GATCACAAAC TACAGCCTGC AGGCCAAATC CAGCCCACAG CCTGTNTTTG TAAATAAAGC 60

TTTGTGGAN CAAAGCCACA CCCCTTAATC TAAA 94

(2) INFORMATION FOR SEQ ID NO: 5118:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 80

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06111

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5118:

GATCTGAATC CAGNTCATTT GAGGGAACCC CCAAGGTTCT CTGGTTGTGG CCTCTTGAAT 60

AAACCTCTCA CATTTGGAAA 80

(2) INFORMATION FOR SEQ ID NO: 5119:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 274

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06112

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5119:

GATCTATTAT CTAGCTGCAA AGCCTGGCTT TGNTTTGNAA TTTTGTA AAAA ATTTTCATGGC 60

ACCCAAGGTT TCTGNTTCTG ACCCAGCAGT GGTCTGAAG AGAGCTGATG GCAAGTNTTG 120

TAGTCATTTT GATTTTAATT GAAGGGTGAG CATAACCTTG TGAACCAGCA CTAGCTTGTT 180

CCAAGCTGGA ATTTATCTAA TCTATTTTGT TGTTTAAAAA AGCTGTACCT ACCAAATAAAA 240

TAAATAGTTT ATAAAATGTA TTA CTTAAGG TAAA 274

(2) INFORMATION FOR SEQ ID NO: 5120:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 350

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06113

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5120:

GATCTTTGAA GATATCCTCA ACGTGAGGCT CTNCTGCCAT GAAGGTGAAG ATTAAGTGCT 60

GGAACGGCGT GGCCACTTGG CTCTGGGTGG CCAACGATGA GAACTGTGGC ATCTGCAGGA 120

TGGCATT TAA CGGATGCTGC CCTGACTGCA AGGTGCCCGG CGACGACTGC CCGCTGGTGT 180

GGGGCCAGNG NNCCCACTGC TTCCACATGC ATTGCATCCT CAAGTGGCTG CACGNACANC 240  
 AGGNGCAGCA GCACTGNCCC ATGGTGCCGN CAGGAATGGA AGTTCAAGGA GTGAGGCCCG 300  
 ACCTNGNNTC TAGNTGGGAG GGGNATNCTG AAGACTTCTT TNCTTNATTN 350

(2) INFORMATION FOR SEQ ID NO: 5121:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 360
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06114

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5121:

GATCTTATTC AGTCTGCTGN TTTGTATAGT GTGATGACCC TAGTAAGCAC ATATTTGGTA 60  
 GCCTTTGCAT ACAAGANTGT GAAATTTGTT CTCAAGCACA AAGTAGCACA GNAGNGGGAA 120  
 GATGCTGTTT CCAAAGAAGT GACTCGAAAA CTTTCTGAAG CTGATAATAG AAAGATGTCT 180  
 CGGAAGGAGA AAGATGAAAG ATTCTTGTGG AAGAAGAATG AAGTNNCINN ATTATGAAGC 240  
 TACANCANNT TCCATCTTCT ATAACAACAC TCNGTTCCTG GTCGTNGTCA TTGTTGCTTC 300  
 CTTCTTCATA TTGAAGAAT TTCAACCCCA CAGTGAAC TA CANATTTGTC CATAAGTTGN 360

(2) INFORMATION FOR SEQ ID NO: 5122:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 88
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06115

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5122:

GATCTGGTCA CACCTAAAGT CATTAAAATC ACTGAAATGT TTAGATACAC AGCCCAATAA 60  
 ATTCTCTTTA TAAAACACAA GCAGTAAA 88

(2) INFORMATION FOR SEQ ID NO: 5123:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 177
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06116

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5123:

GATCAGGCCA CATAAGGAAC AGGGGAATTC CAGGGGTGGG ACACAGCTNG GGGAGTCCAG 60  
 ACCAGGGCAG GGAAAGGAGA CTCACAAGCC AACAGAGCT GCTTTGGGGA AAGTTCTTAT 120  
 CAGCTGGTGC TGCTTCCTGA GCCATATGCC CATTCTCAA GCTGTACCCN NNNNNNN 177

(2) INFORMATION FOR SEQ ID NO: 5124:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 60

(B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06117  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5124:  
 GATCTTGAC CTCCAGCCT CCAGAACTGT GAGAAATAAA TNTGTTTTGT TTCAGCTAAA 60

(2) INFORMATION FOR SEQ ID NO: 5125:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 54  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06118  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5125:  
 GATCTGGCTG ACTCACACGC GACTGGAGAA TAAACAAACA GCAACATAAG GAAA 54

(2) INFORMATION FOR SEQ ID NO: 5126:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 316  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06119  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5126:  
 GATCTCCCAT GGGTCACCCA GGTCCTATGC CTCCGCATGG TATGCGTGGA CCTCCTCCAC 60  
 TGATGCCCCC CCATGGATAC ACTGGCCCTC CACGACCCCC ACCCTATGGC TACCAGCGGG 120  
 GGCCTCTCCC TNCACCCAGA CCCACTCCCC GGCCACCAGT TCCCCNTNGA GGCCCACTTN 180  
 GAGGCCCTCT NCCTCAGTAA ATTCACATTT TNCTTCCTNC TGTTACATTT TNCNAATATN 240  
 TTTTCTATTC CTTGGACCAA TCAGAGATGC TGTAGCTTNC TTGGGGCAAA GGGTACTAAA 300  
 TCNCNTTTNA GCACNN 316

(2) INFORMATION FOR SEQ ID NO: 5127:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 222  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06122  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5127:  
 GATCCTGTTT CTGTCACCAT TGCTCTCGAT TCACTCAGCT GGCTGCTACT TCGCCTTCCC 60  
 TGCACCACAC TCTGCCAGGT CCTGCATGCT GTGAGCCATC AGGACTCTTG TCCTGGTGAG 120

ACCCCTCCTT CATTGTTTCC CCTCATACAT CTCCCTCTGC CAAGGAGTGT GCCCCTTTTC 180  
 CTTTCTACCC TAGAATAAAC ATCTGGGTTC TCCAGTCAGA AA 222

(2) INFORMATION FOR SEQ ID NO: 5128:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 130  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06123

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5128:

GATCGACTGG AACAAAGTGA CCGCTGNGTA AACTACTGC CTTGCCACTC ACTGTTGTAT 60  
 ACATTTCTTA TTTACGATTT TCATTTGTTA TATATATATA TAAANATACN GTATANANAT 120  
 GCAACATANN 130

(2) INFORMATION FOR SEQ ID NO: 5129:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 160  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06125

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5129:

GATCTTAGAG CTAAAAAGGA CTGTAAAAAT TACCAGAAC AGCGTCCTCA GACTTAACCT 60  
 TCTGCAAGTT ATGTCTGTAT ATAAGANGAT TCTAATTGCT AACTGTTTAT ACTTTNCTGN 120  
 ATAAAATAGT TGTTTCTAAT TAAAANGTAG CCAAGCTAAA 160

(2) INFORMATION FOR SEQ ID NO: 5130:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 349  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06126

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5130:

GATCTTCGTT CAGGGCATCA TCTGGGACAT CAACAGCTTT NACCAGTGGG GAGTGGAGCT 60  
 GGGAAAGCAG CTGGCTAAGA AAATAGAGCC TGAGCTTGAT GGCAGTGCTC AAGTNACCTC 120  
 TCACGACGCT TCTACCAATG GGCTCATCAA CTTATCAAG CAGCAGCGCG AGGCCAGAGT 180  
 CCAATAAACT CGTGCTCATC TGCAGCCTCC TCTGTNACTC CCCTTTCTNT TCTCGTCCCT 240  
 NCTNCCCGGA GCCGGCACTG CATGTTCTTG GACAACACCC AGAGCACCTT NTNGTTGTGG 300  
 GNTTTTGNNC NNCGAGCCCT TTAGCNGGGA ANGNCTTGGT CTCNCCAN 349

(2) INFORMATION FOR SEQ ID NO: 5131:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 148

- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS06127
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5131:

```
GATCCTCAAG GACCTGTAAT TTTTGGTAT TTAAATTA AATAACATTA TTTTATTTT 60
GANTTTTTTT CAAACAGTAA GAATAATATA TCAGCAGCAT GTATCTGCCA ATCATATGTA 120
ATAAATTNTT TATTTTGCCA AAACCAA 148
```

## (2) INFORMATION FOR SEQ ID NO: 5132:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 101
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06128

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5132:

```
GATCTAATAC AAGANCTAGC AAAGCAAAAG TTTTGCAAG TGACAGCATA AAGACGGANC 60
ACAACAAATC CTTCTGNAG TGAATTAGGA AACTCCANGG N 101
```

## (2) INFORMATION FOR SEQ ID NO: 5133:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 347
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06129

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5133:

```
GATCCTCATT CTTTCCCCCG TACAGTGGA AACATCTTTN ATGTTTCCTT CATTATACGG 60
GATGGTTTTN CAAGAATAAG ACTTGACCAA GACCGACTGC CAGTAATAGA GCCTGTNAGT 120
ATTAATGAAG AAAATNAGGG ATTTGAACAT AACACACAAG TTAGAAATCA AGGAATTATA 180
GCTTTGAGTT ACCGTGACTG GNGGNGATT GTGAAGACCT TTTGAGATTT CAGAGCCTGT 240
GATTACTCCA AGTCAGAGGC AGCAGNNGNC AAGTNCTTTG NTTGCTAGCT GAAAGGACTT 300
AAATGGNTAG TGAAGGTCCA AAACCGGGNA AGCGGCATNG TGTTGGN 347
```

## (2) INFORMATION FOR SEQ ID NO: 5134:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 72
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06130

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5134:  
 GATCACACTG CAGTTTCCAT GTTAGCACTG TGGATGGGTT TTNAATCAAT AAAAAGTGGG 60  
 GGTTCCTTCA AA 72

(2) INFORMATION FOR SEQ ID NO: 5135:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 203  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06131

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5135:  
 GATCTGTAAA ATAAAACTC AGCTGGGTCC AGATATCAGG TGTTCTAAAT CTAAGAATGT 60  
 AAGAACAATC TTAATAGAAA TATGTNTTTA ATAAGTGGCT AATATCTACA AATAGTACCT 120  
 TTGCTAAATG ANTTCTTTTT NATGACTATN TTGTTTTTNA GNAATTGGGT GAAAANNCAA 180  
 CTGANATGAG ATTATTTATN ATN 203

(2) INFORMATION FOR SEQ ID NO: 5136:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 129  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06133

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5136:  
 GATCTTAGAT TTNATGAAGC ACAGTATGCA GGTAGGCCTA ATGGGGGAAG ATGGTAATAT 60  
 AAAAGCAAGA AGTATTTTTT TTTTGTAAAT GCCTGAANGC TGTNCTGNGG NTGCCCTCCC 120  
 CTTNCCTTN 129

(2) INFORMATION FOR SEQ ID NO: 5137:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 270  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06136

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5137:  
 GATCACCTGA GGTGGGAGT TCGAGACCAG CCTGACCAAC ATGGAGAAAC CCCATTTCTA 60  
 CTAATAATAC AAAATTAGTC AGGCATGGTG GCGCATGCNT GTAATCCCAG CTACTTGGGA 120  
 GGCTGAGGCA GAAGAATCGC TTGAACTGG GAGGCGGAGG TTGCGGTGAG CCGAGANCAT 180  
 GCCATTGCAC TCCAGCCTGG GCAGCAAGAG TGAAGCTCCA TCTAAAAATA AATAANTAA 240  
 TAAATAANTA ANCCCTCANA NNNAAAAATN 270

(2) INFORMATION FOR SEQ ID NO: 5138:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 51  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06137  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5138:  
 GATCTGTAGG GGAGGGAGTT CAAATAAAGC TTTATTTTTT TCATTTTCAA A 51

(2) INFORMATION FOR SEQ ID NO: 5139:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 190  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06138  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5139:  
 GATCTGGGCT CCCTGACTTT CTGAAGCTAG AAAAAGGTTG TGTCTCCCAA CCACCTTTCC 60  
 ATCCCCAGCC CCTCTCATCC CTGGAGCACT CTGCCGCTCA AGAGCTGGTT TGTTAATTAT 120  
 TGTTAGACTT TGCCATTGTN TTCTTTTGTA CCTGAAGCAT TTTGAAAATA AAGTTTACTT 180  
 AAGTTATAAA 190

(2) INFORMATION FOR SEQ ID NO: 5140:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 199  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06139  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5140:  
 GATCGGGAGG ACCTGTATGC CTGACCGTTT CCCTGCCTCC TGCTTCAGCC TCCCGAGGCC 60  
 GAAGTCTCAG CCCCTCCAGA CAGGCCGCTG ACATTCAGCA GTTTGGCCTC TTTCCCTCTG 120  
 TCTGTGCTTG TGTTGTTGAC CTCCTGATGG CTTGTCATCN TGAATAAAAT ATANTAATAA 180  
 ATTTNGTATA AATAGGAAA 199

(2) INFORMATION FOR SEQ ID NO: 5141:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 312  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06141  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5141:



```

GATCCAACCA CCTCAGCCTC CCAAAATGCT GGGATTATAG GCGTGAGCAC TTGCACCTGG 60
CAAAAAAATT TTTTAAATAA AAGGAGAAAG CAGTTTAACC ACAAACAGTG AAACAGAGCT 120
GGCAGACGCC TGAAACTCCA TGGAACCATG CAGCTGTACC CTAGGGCTCC TCCCAGGAAA 180
AGAGAGATGT CAACGTGGCC CAAGGTGTCC TGAAGCACTG GGATTGGNTT ANCTCGAGCG 240
NTGGCCTTCC CAGCCCTNCG TGCTGCAGAG CCTCTGCTCG CTAGGCTNCC TTCATNCTNA 300
CTCTGTGTGC TN 312

```

## (2) INFORMATION FOR SEQ ID NO: 5142:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 229
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06142

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"-unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5142:

```

GATCTAAGAC AGCAAAGAAG TGTGCAAGGA GGGCCCTGTT AGCTCCCACT GTCCTGGTTT 60
CTCCTCCTGG AGTCTAATTT CCTTGGCCCT CTGAGCCTTT TGAGTCTGGG CCCTGGTCCA 120
ATGCTGCTGT TGTCTGAGGA ATGGTTTGGT GAGAACAGAT GTTAGAACTT GTTTGTGTAT 180
TCTTGTCTGG CTAATAAATC ANCACCAACT GNCTTCTCCN ACAGGGAAA 229

```

## (2) INFORMATION FOR SEQ ID NO: 5143:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 332
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06144

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"-unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5143:

```

GATCTAAGAT TATTCCCATG AGAAATGTTG AATTTATGAA GAATAGATTT TAAGGCTTTG 60
AAAATGGTTA ATTTCTCAAA AACATCAATG TCCAAACATC TACCTTTTTT CATAGGNGTA 120
GACACTAGCA AGCTGGNCAA ACTATCACA AAGTATTTGT CACACATAAC CTNTGGTCTG 180
TTGCTGATTA NTACAGTACT TTTTCTTTGT GTGATTCTNA ACATTATAGC ACAAGTATTA 240
TCTCAGTGGG TTATCCGGAA TAACATCTGA AAGNGGGGTT CATCTNTGGT NGNGTTTGCT 300
CNNTAAACTA GNGTNTCTCC TGGTCCCAAT GN 332

```

## (2) INFORMATION FOR SEQ ID NO: 5144:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 275
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06145

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"-unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5144:

```

GATCACATCA CGGAATATTC TTTGCCTTTC CACTTTCAG GAAATCTCTC GGACTGGGCT 60
AGCCTCCTTG TGTGTGATGA AAGATGGGCT ATATTTTCTAGA ACANAGTGCT GTGTTGTCAT 120

```

GATTTGCCTG GACTCCCAGG GCGTCTCTTA CCCAACTTGA TAACGATGCT GTTCATTAGC 180  
 AGCCTGTGTT AACTGATAAC CAAGAGCGGT AATGTGATAC TCATAAGCAA TTTTCTGTGT 240  
 GTAGGATAAA ATANNCCATC TTGTATNATT NCAAA 275

(2) INFORMATION FOR SEQ ID NO: 5145:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 92
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06146

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5145:

GATCTCTTTT CAAGTTCACCT CATTCTTTCT TCTGTAATGT TCAATCTCTC TTAAGAAAAGT 60  
 CCAAATAAAT TTTTCATTTC AGAGAGTGGG AA 92

(2) INFORMATION FOR SEQ ID NO: 5146:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 323
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06148

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5146:

GATCTGGGCA TTAAGTCAGT GGCTTTGCAT AGCTTTCACA AGTCTCCTAG ACACTCCCCA 60  
 CGGGAAACTC AAGGAGGTGG TGAATTTTTA ATCAGCAATA TTGCCTGTGC TTCTCTTCTT 120  
 TATTGCACTA GGAATNCTTT GCATTCTCTTA CTTGCACTGT TACTCTTAAT NTTAAAGACC 180  
 CAACTTGCCA AAATNTTTGG CTGCGTACTC CACTGGTCTG TCTTTGGATA NTAGGNATTC 240  
 AATTTGGCAA AACAAAGTGT AATGTCAGAC TTTGCTGCAT NTTACACATG TGCTGATGNT 300  
 NACAATGGTG NCGAACATNA GTN 323

(2) INFORMATION FOR SEQ ID NO: 5147:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 347
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06150

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5147:

GATCTTTTGA GTGGAGGTGG GTAGAGAGAG CAAGNAGGGC AGGACACTTA GCAGGCACTG 60  
 AGCAAGCAGG CCCCCACCTG CCCTTAGTGA TGTTTGGAGT CGTTTTACCC TCTTCTATTG 120  
 AATTGCCTTG GGATTTCCTT CTCCCTTTCC CTGCCCACCC TGTCCCCTAC AATTTGTGCT 180  
 TCTNAGTTGA GGAGCCTTCA CCTCTGTTGC TGAGGAAATG GTAGAATGCT GCCTATCACC 240  
 TNCAGCACAA TCCCAGCGAA AAAGGGTGTG AAGNACCCAC CATGTTCTTG GAGCANTCAA 300  
 GGGTTNCTAA ATNNNNCGGC TGGGACCANT NANATAGTGA GTNNNNN 347

## (2) INFORMATION FOR SEQ ID NO: 5148:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 388  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06151

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5148:

```
GATCTGCCAT ACCACTGTGA CTGCATTGAA AGATGTCCCT TTCTCTCTCT GCCAGTCGGT 60
CGGTGTGGGA CAAAACACAG ATATACAGCA GATAGCGGCC AAAAAGTTCA CAGACACCTC 120
TCTCATGTAC CCAGAGGACA CTTGTAAATC TGGACCAAGT ACGAATACAC AGAGTGGTCT 180
TTTCAACACT CCTCCCCCTA CTCCACCGGA CCTCAACCAG GACTTCAGTG GATTTTCAGCT 240
TCTTAGTGGA TGTTGCACTC AAACGGGGCT GCAGAGATGG AGGCTTNAGG GNANANCTTT 300
ACAGNTTAAC CCNATTTTCA AGCANAAACA GTTCTCANGA AGTGTCTATGA TTGNCCGGGG 360
TAGAAGGGAA AGAGATTGAA TTTGCTTN 388
```

## (2) INFORMATION FOR SEQ ID NO: 5149:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 308  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06152

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5149:

```
GATCTATAAT GGGATACATT GTCATCCTCT AGCAACTCCT ATATAGAAAAG TTTTAACTGA 60
ATATGTTACA TATANGAATT AAATTCTTCT CAAATAATTC TTAACCTCAG TNATGAGCCT 120
AAATTTACTC TGCTTGGCTC TCTACACATG GCATTTTCAGG GTATAAGATG TAGCATTTNA 180
ATGTGTAAGA TATATGTACN NNNCATATGT GTTGCTATCN TCATCATTAA CATCCTTCTT 240
TNCTATTGCT TGGCTGTAAT TTTTGTAAAG ATAAATTATA TTGTNTNNNT GTATGTGTGT 300
TTGTAGTN 308
```

## (2) INFORMATION FOR SEQ ID NO: 5150:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 316  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06153

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5150:

```
GATCTGTCCT GTGAGGCATT TAGGGGCTTT CAGGAATTTA GTAAAAGGTG GAGTATGCCT 60
TTCCAGTATC TTCCATCTTC CTTTGTATAC TTGTCCCTTCC TCCCATTTC TCCCTTTGGC 120
CCGAGGTAGG AGGATGGAGG GAGGCTGCTA CTCTACCACT TCCTGTGTGC CTCTACTGTG 180
GCCTCAACCC TGGCAATTAT AGCTACTCCC ATCCCTTACC TGGGCATGTG TGAGCCCTTC 240
TCACTGGATT TTATACCCTT GTGTCTGTGT ACATAAATAT ATATACATAT ATATATACAT 300
AAAANCTTTG TACAAA 316
```

## (2) INFORMATION FOR SEQ ID NO: 5151:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 66
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06154

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5151:

GATCAGGCAG GAGAAAACT TTAGATGGGA GTCTTGTCAT CAAAAATAAA TACAGTTGCA 60  
TGGAAA 66

## (2) INFORMATION FOR SEQ ID NO: 5152:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 311
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06155

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5152:

GATCAGGACA AGAGCGANGC ACCAGGGGAG CTCTCTCCCA AAGGCCTTGT CGCCCCAGAC 60  
CTAACTCGCT CCCCTCAAC CTGCCTGAGG AAGAACTCT CAGGATTGCA CGGATATTTT 120  
CTTCTCAGTA CTCCAGAAA GACTGACGCA GCCTGAGGGG CTGGGGTTGA AGGAGACACC 180  
TGCCCANCN NCGTCAGNTT TGTCCAGCTT GCAGGAGGCA CCAGGTCTGG CTCCTTCAGG 240  
GCTGTCACAG TCCTGAAACC ACCACTTGCC TAGGTCACGG ATGCCTNAAG AGACCCGGTN 300  
AGGCTAGATN N 311

## (2) INFORMATION FOR SEQ ID NO: 5153:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 111
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06156

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5153:

GATCTAGGGC TGGCCCCTAG TGAGTGGGCT CGAGGGAGGG TTNCCTGGGA ACCCCAGGAA 60  
TTGACCCTGA GTTTTAAATT CGAAAATAAA GTGGGGCTGG GACACACGAA A 111

## (2) INFORMATION FOR SEQ ID NO: 5154:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 274
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06157

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5154:

```
GATCTCCTNN TCCAGTGCTG CACACTCCTG TTTTGGAAAC TTAAATAGCG TTGCAACGAA 60
ATCCTATATC CAGTTTCCTG TAATTTANTT GAAGAAAAAT ACATCCAAAT AAAGACTTTA 120
TTATTAACAG ACCAGATAGC ATCAGAAATC ATGTGACTGT TNTGCTTATC AGANTATGTC 180
TNAACTNTTT AGGGCAAAGT TAACACTGAA AGTTCTAGCT TAAGTGTTGA NCCTNTNGTG 240
GGAAAAANAA TTCCACTTGT GAAACNTCAG GCTN 274
```

(2) INFORMATION FOR SEQ ID NO: 5155:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 155  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06158

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5155:

```
GATCACTCTG GTGCGGGTGT TTGGTTTTGT TTTAAATAG CTTTGCAGTG AAAGCTTTCA 60
TGACCATACA AATNATCTTT TTTCTTCCTA TTTCTTGTA GAGGTTTTTT TCCTCCTTGT 120
CTTAAGGTCA TAAAAATATT GTTATGTGGG ACAA 155
```

(2) INFORMATION FOR SEQ ID NO: 5156:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 369  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06159

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5156:

```
GATCTGTGGC TTTGCTCCAC CATCCCTAAC CAACCTCTCA TCACAGCTTT NTGTGTGGGC 60
TGAGTGCTGG CCTTAACCCT AGGCGTGGAA GAGAAAATGT GAGGTTGTTT AGATACTCAT 120
CAGGACCTCA CAGGAGCTGA GACTTATCAG CCAGAATNTG TTCTTCGGAC AGTCGTACAC 180
ATCTTACAGA AAACCCTCCT TNGTAGAGTT GGNTTGTGGT ATGTGTTTGA TGCTATAAAG 240
CTCATTTTTA ATGGTGTACA CCTGNTTCTA GGGNCGATTT CGTTTTGGAA GNGGGTAANG 300
NTGCNTTAAC CAGGTAAC TN ATCCTTGGGN TTTAAGGTGN AAAAAATNTT CTNGNCAAAG 360
GGAANCCNN 369
```

(2) INFORMATION FOR SEQ ID NO: 5157:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 279  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06160

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5157:  
 GATCAAAATC AAAAGAACCG TG TAGATATA CTTNATTGTA TAAGTAGAAA ATTACTTAAT 60  
 TNCATACTAG AAATGGATGG ATGCTGCAAG TTGAAATGGA CTGTCCATTG ACGGTCCTAA 120  
 TGTGGTAGCA GAAAAANATG GTGTCTTAAG TNCTTAGNGT TTGATGTCAT TAACAGTTTC 180  
 GTAAACTCT ACAGTGTAGN AAGTTTTTTC AATACTAAAC TGTGCGTTGT NCATAGTTCT 240  
 AATGCATTGT NTTNGCCNCC CGGTACTTTC TNTNAANGN 279

(2) INFORMATION FOR SEQ ID NO: 5158:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 337  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06161

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5158:  
 GATCTCAAGT GAGATAGCAG AGCAAGATGC CAAAAGACCA TAAATAGAGT AAGGTTTCTA 60  
 TAGATGTNAG ACAGATTTGA GAGAGCATTT ACTCTGTCTC CCTGTGGATG AAAGTCTGTC 120  
 TGAAATGGTT CCAATTTTNA GGAATCTGCT TACCCNCTTC ATTATTTGAC AGCTTTCCTT 180  
 GGTGACCCAA ACCTTG TAGC CTAAGCCATT TGTCTTTTTC TCAGTGGAGG GAGTGTATGG 240  
 ACCTGGCCCC ATGGCTTTGC ATGTTAGAGA CCTGGCNGAC TAAAGTCNCN GGGTGTGTTGT 300  
 TTGCTCACAT TTGCTGAGTG ACAGNTATGG TGNCNN 337

(2) INFORMATION FOR SEQ ID NO: 5159:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 378  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06163

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5159:  
 GATCTACAAC CCCTTGAGC AGTGCTGTNA CAATNACGCC ATCGTGTCCC TNAGCGAGAC 60  
 CCGCCAATGT GGTCCCCCCT GCACCTTCTG GCCCTGCTTT NAGCTCTGCT GTCTTNATTC 120  
 CTTTNGCCTC ACAAACGATT TTATTGTGAA GCTGAAGGTT CAGGGTGTGA ATTCCCAGTG 180  
 CCACTCATCT CCCATCTCCA GTAAATGTGA AAGCAGAAGA CGTTTTCCCT GAGAAGACAT 240  
 AGAAAGAAAA TCAACTTTTC ACTAAGGCAT CTNAGAAACA TAGGCTAAGG TAATATGTGT 300  
 ACCAGTAGAG AAGCCTGAGG AATTACAAA ATGNTGCAGC TCCAAGCCAT TTGTATGGCC 360  
 CATGTGGGAG ACTGNTGN 378

(2) INFORMATION FOR SEQ ID NO: 5160:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 135  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06164

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5160:  
 GATCAGCCCC ACCCTGGCCT AGACCAGCAG ACAGAGCCAG GAGAGGCTCA GCTGCATTCC 60  
 GCAGCCCCCA CCCCCAAGGT TCTCCAACAT CACAGCCCAG CCCACCCACT GGGTAATAAA 120  
 AGTGGTTTGT GGAAA 135

(2) INFORMATION FOR SEQ ID NO: 5161:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 350  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06165

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5161:  
 GATCTCGTAA GATTAAATGT AGCATTCTAT ACTCCCTACA TGCACAGTAN GATTGTGTTA 60  
 ATGAATGGAA GGAAAGACTA AATACAATGT CAAATGTNAC TATTAATTGG ACAAGAAAAT 120  
 CCAAGTAGCA AATGACCATT ATGTGTAAGA CTTACTCTAA AAAGACCNTT TTAAATAGCT 180  
 CATATATTAA TNTNGTTTAA AACCTGCTAT TTTCCAAAAC TGCAAAACTA GGGCTATAAA 240  
 AATCTAAGTT AAAAAATCAG CTNATCCTCA TTGGTATAGT GGTNTGGNNA AAAAAATCCA 300  
 GTTTTAAACC NGNNTNNATT GANAGGNTGT CTCCATGCCT NCCATTGGGN 350

(2) INFORMATION FOR SEQ ID NO: 5162:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 57  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06166

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5162:  
 GATCACTTTT ATGTAAAAAT TATAATTTAA TTAATAAAAA ATTTCTTAAG AAGTAA 57

(2) INFORMATION FOR SEQ ID NO: 5163:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 203  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06167

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5163:  
 GATCAGGCCT TGGCCTCTNA GCCCTGCCTG CTCTGGGCCA TGCAGAGGAA GGACAGAGNG 60  
 TGGGCGCAGG GCACCAACTC AGGGACATCC CCTCTCCTGG GCGACGTCAG TGGACCTTCC 120  
 TGCACCCCCA GCCTGGAATG TAAATNAGCT GTGTGGTGCC CGCGTNGCTG GAAGGAAATA 180  
 GACCCTTTTN TAGCTCCCTG AAA 203

(2) INFORMATION FOR SEQ ID NO: 5164:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 274  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06168  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5164:  
 GATCCTCTGT GATACCAAAA TCCATGGATG CTAAAGTCCC TTTTAAAAA TGGCATAGTA 60  
 TTTGCATATA ACCCAAACAC ACCCTCCTGT GTATTTTAAA TCATCTGTAG ATTACTTATA 120  
 ATACATAATG TAATGTAAAT GCTATAAAAN TAGTTATTAG ACTGTATTTA GGGAATAATG 180  
 ACAAGANGAA AAAGTCTGTA CATGTTTCAGT ACAGAGGCCAA CCTTTGTAGG TCTAAATANN 240  
 TTTTAAATAC AGNANTNNGG ATGTNAGNNN NGGN 274

(2) INFORMATION FOR SEQ ID NO: 5165:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 343  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06169  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5165:  
 GATCTCTTTT TATTTAAATG TGAATTTCAA CTTTGTGACAA TCAAAGAAAA GACTTTTGT 60  
 GAAATAGCTT TACTGTTTCT CAAGTGTTTT GGAGAAAAAA ATCAACCCTG CAATCACTTT 120  
 TTGGAATTGT CTTGATTTTT CGGCAGTTCA AGCTATATCG AATATAGTTC TGTGTAGAGA 180  
 ATGTCACTGT AGTTTTGAGT GTATACATGT GTGGGTGCTG ATAATNGTGT ATGTCCTTTG 240  
 GGGGTGGAAA NGGATAACAA TTCAAGCTGA GAAANGTATT CTCAAAGATG CATTTTATA 300  
 ANTNTNATTA ANCAATNTTG TNANAGNNNG ANGNGTGGGN NTN 343

(2) INFORMATION FOR SEQ ID NO: 5166:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 124  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06170  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5166:  
 GATCATACGA GGCATGTAAT ACCAAGAATT GTTACTTTAC AATGTTCCCT TAAGCAAAAT 60  
 TGAATTTCTT TTGAATTTT AGTNATGCAC AGACTNATAA TAAACCCTCT AAANCCTGCC 120  
 CAAA 124

(2) INFORMATION FOR SEQ ID NO: 5167:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 367  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear



## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06171

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5167:

```

GATCTTGGAC CCAGTCTGGC CCGTGCCAG CATGGGGCTG CTTCTCCTCC ACAGCTCCTT 60
CCCAGAGGGC TGGGGCCTCA GCCTCCCTGC CACGTCCACT CTGGGCTGGC CTGGAACATA 120
CTACTATGTT GACAGTAACA ATAAAGCTCC TCAGGGACCA CCGTACAGGC CCGCAGCCCC 180
ACTGNCTGCT GTTGAAGAA AGCTGTGGAA AGAAAGCAGG GGGNCCCTGC CCCAGGCCAA 240
GGCCCTGCCC TTGCCACACA CGGTACACAN ATGCAGCCTC TCTNTCTCTN TGTGTCCACT 300
TGTGAAAATA ANCTGCAGGN CTGGNTNGGA CAACAAAGGN AGNNGNACAG TGTCTNGGNN 360
GGCANNN 367

```

## (2) INFORMATION FOR SEQ ID NO: 5168:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 207

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06172

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5168:

```

GATCAGTTCA GTATATTGCA CTAATTATTT TAGGTATTTT CATTATATGA AAGCTACCAT 60
GTGTCAGAGA TGATTTAATC TATTTAAGTG TTGGACTGCT AGGAGAACTT GTACATTTAT 120
GATAATGCAG AATTAGGAAA ACGGTTTACC AGTGTTTAGT TTTATATTGA GGTGCTCAG 180
TTGGTATAAA GTGGTATAAA AAGCAAA 207

```

## (2) INFORMATION FOR SEQ ID NO: 5169:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 116

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06173

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5169:

```

GATCATGCCC TTTGTAGTAN CACAAATGGN GCTGGAGACC ATTATATTAA GCAAACCTAAC 60
ACAGTNCCAG ANAACCAAAT ACAGTATGTT CTCACCTATA AATGGGAACT AAAGNN 116

```

## (2) INFORMATION FOR SEQ ID NO: 5170:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 92

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06174

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5170:

GATCTGCTAG GGATTGTCAA AATAATCTCC TTGAGGCATC TTTATTTTAA AAATGAGATT 60  
 AAAGTATGTG ATTTGCTTGT TATGTGGCTA AA 92

(2) INFORMATION FOR SEQ ID NO: 5171:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 120
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06175

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5171:

GATCANCAGA AAAGGCAAAT TTCACCTCGNC TAAACACTTT CAATTTTCAG TTNTAATTTT 60  
 ATNTTCTATA TACCCAGTCA TAAAGTATAA GCATCAGTTG TCATTAAAAG TTTTCAGAAA 120

(2) INFORMATION FOR SEQ ID NO: 5172:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 102
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06176

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5172:

GATCTGTAAT GAAAAGAATC TGNTACTGCA AGTAAAACCT ACTCCCCAAA AATGTGTGGC 60  
 TTTGGGTCTG CATTAAACGC TGTAGTCCNN GTTCATGCCA AA 102

(2) INFORMATION FOR SEQ ID NO: 5173:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 171
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06177

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5173:

GATCACTTNT NGTCTGATTG CAGCCTGCTT GCAACCCTGG GNTCCTCTTG TTCCCTGCTG 60  
 NCCTGCCCCCT TGGGAAGGGG CAGTGATGGC TTTGAGGGGA AGGAGGAGAC CCTCTTTCTC 120  
 CCATGCTGCA CTTACTCCTT TTGCTAATAA AAGNGTNTNT AGATTGTCAA A 171

(2) INFORMATION FOR SEQ ID NO: 5174:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 188
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06179

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5174:

GATCTAAACT GTATTGNCCA ATTTAAATAA AAAATNNAAT ATAGATTCAG AAAGGTTTCAT 60  
 ATTTTCTCTAA TGACTTCATT CTATATTATN TTGTTAGGTT GCATAAAGAA GCAAGGAATT 120  
 GTACTTGTAT TAAAAGATGA AGAAAGCTAT TAGGTATATT TGTACATGNC TGCANNTGTG 180  
 TCTATNNN 188

## (2) INFORMATION FOR SEQ ID NO: 5175:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 69  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06180

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5175:

GATCTTGAGA GGTGGAGGTT GCAGTGAGCC AAGATTGTGC CACTGNCTTC CAGCCTGGGA 60  
 GACAGCAAA 69

## (2) INFORMATION FOR SEQ ID NO: 5176:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 134  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06181

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5176:

GATCTGTAA TATGTAACAT ATTAATGGGT AACTTGCTGT GTAAAATTAT AAGCCATATT 60  
 TTAAAAGGTT TTAAAATAAC TTATTGTGCT CCATTTGTGA TATAATTNCT AACATTTCTG 120  
 CTCTGTGANN NNNN 134

## (2) INFORMATION FOR SEQ ID NO: 5177:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 59  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06182

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5177:

GATCTTNGAG ATTGTTCCAC ATCAGTACAT AAAGTACATA AAGATTGTCA CCCCACAAA 59

## (2) INFORMATION FOR SEQ ID NO: 5178:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 193  
 (B) TYPE: nucleic acid

- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS06183
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5178:

```

GATCTGTCTA CTTNNCTTAT CCTGATTCAA ATGGAATGCC AGTATGGAAC TCCTAGGATT 60
TGTCACGAAT GGGAAGCCAA GTGCCATCTT' CAAAATTTCA GGTCTTAAAC NTGGAGAAGG 120
AAGCCAACAT CCTTTTGGAG CCATGAATNT TGTCCGAACT CCANNNTGTT GCTCAGANTG 180
GANTTTTCAGT GGN 193

```

(2) INFORMATION FOR SEQ ID NO: 5179:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 109
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS06184
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5179:

```

GATCATTATT TGGNAATATG TCCTATGGAA AGAATAAAAG CATGTNCTTC ACAGCTAGCA 60
TGTTACAGA TTTGAAAGAA GTTTCATTAA AAGCACCATT GCTTTCAA 109

```

(2) INFORMATION FOR SEQ ID NO: 5180:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 297
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS06185
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5180:

```

GATCTTAATT TAAATAGGTG CTTTAATTTT ACAGCTTTCA AAAGTAGTTA CTGTAAATTT 60
TACTCCTGTT AATGCTGGAT TGGTTTAAAG GATTTATAAG GGCTGTGTTT NCTCTNTACA 120
AGGCAAGATG CCATACAGNG TTCANTAATA GAAGGTCTNG ATACAACCGA CATTTTAAAT 180
ATTCTNTATA CATGNGGACT GCGTCTTTTT CACTGACCCT ATGANTTCAC TGTGGAGTAG 240
GGTGAAGTGG NCTGCANATT AGTTTATTTG TTGCCATAAT CACATTNNNG AAAAGAN 297

```

(2) INFORMATION FOR SEQ ID NO: 5181:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 301
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS06186
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5181:

GATCTNATTG CTTATAAACT TTGGTGACGG TAGTGTGTAA GGCCGTATTT NNAGCATCTN 60  
 ACAGGTGTTT ACAAATAAGT GGTTGTCGCA CTGGGAAGTG GAGTGATGGC CTCGTCTCCA 120  
 GTGCTCCTCT GGGCTCTTGA GTTGCTGCTT GANTTGCCGT GTAGACATTT NCTTGAGAG 180  
 TCCACTTGTN ATTTGACGGA GGTAGGTTTC AACCCAGAGT TAATGTCAAG CATGCTAATT 240  
 TANCTAGTCA CTCACAGATG ACTTTCCTTT AATAAAAGTC CCTTTTCCCT AAAANAAAAA 300  
 A 301

## (2) INFORMATION FOR SEQ ID NO: 5182:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 293  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06187

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5182:

GATCTTTGGG CAAGTCACTT AACCTCTCTT TNCCTCAATT TCCTCATCTT GAAATGAGGA 60  
 TAATAATACC TGCTGTACCT ACCTCACAGG GCTGTTGTGA GGATTAAATG AGNTGGCATG 120  
 TGAAAGCACT TTGAAAATTG TAAAGCGCTA TGTAATGTGA AGGTATTATA GAANCATCTT 180  
 TAACATATAG TTTCATACCA TTCATTTTTT ACCAAAGAAA GGGAAAGTNT GCTNGTANGC 240  
 TGGTTGAAAA AGTTANNCTT GGTATAANNT TGNGTTTGGT TGANGNANAA GGN 293

## (2) INFORMATION FOR SEQ ID NO: 5183:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 149  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06188

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5183:

GATCACAAAA GTATATAAAA AGTCTACTAG AGCAACATTT TCCCATATTT TTNGGTTCTC 60  
 AAAGCAACTT ATGTATGNTT TAGAGANGNC AAAAGAGGAA GCCTAGGGGG AAAAGAAAGA 120  
 NAATTAGAAT TTGCAAATNC TAGAAAANN 149

## (2) INFORMATION FOR SEQ ID NO: 5184:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 157  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06189

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5184:

GATCGAAAAG AAATTTNTTT ATACTTGATG CCTTAAGATN CCCAAAGCTG CCCAAAGCTC 60  
 TGAAAGACTT TAAGATAGGC AGTAATGCTT ACTACAATAC TACTGANTTT TTNTAGAGTT 120  
 AACATTTGAT AATAAACTT GCCTGTTTAA TCTCAA 157

## (2) INFORMATION FOR SEQ ID NO: 5185:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 62
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06190

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5185:

GATCTTGCCT GGAAGGTGTT TTAAGTTTTN TAATAAACAA GATGATGTCT GAAAATNTGA 60  
AA 62

## (2) INFORMATION FOR SEQ ID NO: 5186:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 145
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06191

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5186:

GATCTAGAGC AGCATGGAGC TGTTGGTAGA ATATTAGTTT TTAACCATAC ATTGTCCCAA 60  
AAGTGTCTNT GCATTGTGCA AAANGTAAAC TTAGGAACAT TTNGGTATTA AAAGGATTAT 120  
TTTAATTGNN AAAAGCCNGA NGCGN 145

## (2) INFORMATION FOR SEQ ID NO: 5187:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 103
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06192

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5187:

GATCAACAGC TCCGCCTACC GCAAAGCATT TGANAGCAGA CTAGCCANCA GTNGTGCTCT 60  
GAGAGTGAAC GNGCACCTCC AGGTNGAGGG CCACAGCAAC GTN 103

## (2) INFORMATION FOR SEQ ID NO: 5188:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 248
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06195

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5188:

GATCTGATAG AGGGGGAGGC AGAAGCAGAT ACTAGAAACA AACAAAACCTT TGGACCAAAA 60  
 TCCAGTTCA AAGAAACAAA AAAAAGAGTG GAAACTATTC TATCATAACT ACCCAAGGAC 120  
 TACTAAAAGG ANAAATTGTG TTACCTTTTT TAAATTCCCT GTTAAGTCCC TTCCGTAATT 180  
 TTNATGTTCT TGTGAGGANA AAAGTAAANC ATGTTTANTT TTAANNAAGG NGANAGNGGG 240  
 NGTNTAGN 248

(2) INFORMATION FOR SEQ ID NO: 5189:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 354  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06196

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5189:

GATCTCTTAT ACAGACGCAC CAAAGCCCTC ATTGACTATG AGAACTCAAA CAAAGCTCTG 60  
 GATAAGGCCC GGTTAAAGAG CAAAGACGTC AAGTTGGCTG AGGCACACCA GCAGGAGTGC 120  
 TGCCAGAAAT TTGAACAAC TCCGAATCT GCAAAAGAAG AACTGATAAA TTTCAAACGG 180  
 AAGAGAGTGG CAGCATTTAG AAAGAATCTA ATTGAAATGT CTGAACTGGA AATAAAACAT 240  
 GCCAGGNACA ATGTCTCCCT TTTGCAGNGC TGGTNTTGAC TTGTTCAAGA GTAAGTGGTT 300  
 ATGCCTTCAC TCNGTAGGAA NNGGAGTTGA ATTGTTGTAA GGAAGCCNAN GTGN 354

(2) INFORMATION FOR SEQ ID NO: 5190:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 77  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06197

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5190:

GATCTCTATT TTAAACTAG CTTTTTAAGC AGCTGTATGA AATAAATNCT GAGTGAGCCC 60  
 CAGCCCGCCC CTGCAA 77

(2) INFORMATION FOR SEQ ID NO: 5191:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 257  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06198

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5191:

GATCTAGCTT CANAGGAAGT CTACACCCCA TTCCCTTCTG CTTACAATGT ACCCATGATA 60  
 TGTGTTTAGC ACAGTAATAC TGTAACAGGA CATCACATGG AAAAATCAAA GCAGCTGGCT 120  
 CACTGTATTT AACTGAAAAG AATGCCTACA GATTGGATAT TTNGTAGGGG NAATTAAGGC 180  
 ACTTTNNTAA CAACTTCAT TNTGTGAAAC TNGGTTGAAT ATTAACATAC AATTNNGNCG 240  
 GGNNTATTAA TGCCATN 257

## (2) INFORMATION FOR SEQ ID NO: 5192:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 185
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06199

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5192:

```
GATCCCAGGC TGCCCTGGAC TTAGACCAGT GTCTGAGGTG GTAACAGCGG CCGCACAGGG 60
TTGGCCTAGA CCTNGGATTT GTGGGGAAAG CTGCTGGTGT GACCANCTGA GCACCCAGCC 120
AGGAGACCTG CAGCCCTNCG NCTTCCAGAA GCAGGTCCCA AATAAAGNCA GTGCCNACCT 180
NCAAA 185
```

## (2) INFORMATION FOR SEQ ID NO: 5193:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 60
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06200

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5193:

```
GATCTGTATA TAACTTTAAT TTAAAGGACC ATAATCAACT TTGTAATATT CTNATATAAA 60
```

## (2) INFORMATION FOR SEQ ID NO: 5194:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 286
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06201

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5194:

```
GATCACCCCTC TACGGGAGAA CCAAGGAGCT GACTTCGGAA CTAAAGGAGA ACTTCATCCG 60
CTTCTCCAAA TCTNTGGGCC TCCCTGAAAA CCACATCGTC TTCCCTGTCC CAATCGACCA 120
GTGTATCGAC GGCTGAGTGC ACAGGTGCCG CCAGCTGCCG NACCAGCCCCG AACACCATTG 180
AGGGAGCTGG GAGACCCTCC CCACAGTGCC ACCCATGCAG CTGCTCCCCA GGNCACCCNG 240
NTGATGGAGC CCCACCTTGT NTGCTAAATA AACATNTGCC CTCAAA 286
```

## (2) INFORMATION FOR SEQ ID NO: 5195:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 138
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:



- (B) CLONE: HUMGS06202
- (ix) FEATURE:
- (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5195:
- GATCTCTTGT TCTCTCCTGA GTGTCTTNCT ACTNTGCTGA GNGTCTTTCT GCTGTCCTTA 60  
 TCCTGTTCTC TTATCCTNAT CCCCTCCAGT CTCTGCCTAA TTTTNAGTGT TTAATAACAA 120  
 CCGNATGTCT AGTAAATN 138
- (2) INFORMATION FOR SEQ ID NO: 5196:
- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 96
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
- (B) CLONE: HUMGS06203
- (ix) FEATURE:
- (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5196:
- GATCAAGAAC TTGGAACCGC AGAAAACGAA ATCCCATAGT AGCACAAAGC TTGGCTGTTC 60  
 AGTGAATAAC ATTTAAATAA TCGTAAANTA CAGAAA 96
- (2) INFORMATION FOR SEQ ID NO: 5197:
- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 222
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
- (B) CLONE: HUMGS06204
- (ix) FEATURE:
- (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5197:
- GATCTTGCAG CTTTATTTGA GTATTTGTTT TTTTGTGTAG TTTCCATCTT TAAAAATATT 60  
 TAAAAATATTT TCAAGATAAA GTATTATCTT CTCTGCAAAA ATTCTGAG TAATTTNCTC 120  
 TCATAATATT TGAGGTCAGT GGTTCCTCAGT TGTATTAGTG GGGTAACTAC ATCAAAGTAA 180  
 ATAANGTCTT ATTTTNNANA TGCAAATTTT AGACCATAGA AA 222
- (2) INFORMATION FOR SEQ ID NO: 5198:
- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 53
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
- (B) CLONE: HUMGS06205
- (ix) FEATURE:
- (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5198:
- GATCAAGTGA ACCATCCCTA GTCTTCCCTC AATAAATAAC TTTTAACTCC AAA 53
- (2) INFORMATION FOR SEQ ID NO: 5199:
- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 239

- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS06206
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5199:

```
GATCANAGTG AACCTCAGT TTGTACAAAA GAGTATGGGC TCACAAGANG ATGATTCAGG 60
AAACAAACCA TCCAGTTATT CTTGAAACTA ACATCCATCC TGAGCTAAAC NAGAGAAACT 120
ACCATCTTGG CCAGTGNCAN GTGTTCGGAG GGCAGCAGAG NGGACCAAGC CTGTGTCACC 180
TGGNGACTAA GAANTTAAGT TTTGTNTTGA CATATTCAGT CCTGTGTGCT TNCAGNAAN 239
```

(2) INFORMATION FOR SEQ ID NO: 5200:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 233
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS06207
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5200:

```
GATCGAATAC GTGGATNGA CGGGCCGGAA ACTCACACCC AAGGAGGCTT TCCGGCAGCT 60
GTCGCACCGN TTCCATGGCA AGGGCTCAGG CAAGATGAAG ACAGAGCGGC NGATGAAGAN 120
GCTGGACGAG GAGGCGCTCC TNAAGAAGAT GAGCTCCAGC GACACGCCCC TNGGCACCGT 180
GGCCCTGCTC CAGGNGAAGC AGAANGCTCA GANNGACCCC NTACATCGTG CTN 233
```

(2) INFORMATION FOR SEQ ID NO: 5201:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 163
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS06208
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5201:

```
GATCAAAAAG GGGTTGATTA CAAGGGCAGG AAGGAATTGT TAGTGTGATT CTACAGTTCT 60
GCATCTTGNT TATGGTATGA CTGTGCGTTT GTCAAACCTT AACAGGATGA ATTTTGCTGA 120
ATGTAAAATC ATAATTCAAT AAACATGACT TTAAANCTT AAA 163
```

(2) INFORMATION FOR SEQ ID NO: 5202:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 319
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS06209
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5202:  
 GATCAGTTTA TGTGTAATAT TCTAGTGCTT TAATGACTCT TTTTTCCTTT GGAGGGAGGG 60  
 TAACATTATT TGGACAGATG CAGAAGGAAC TGTTAGTGAG TCAAGACAAA CACATCTGAA 120  
 ATAAAGGAAC TGTGTATTAA CATGTTAACA ATTCATAACT GCACTTTTTA TGACATTTTG 180  
 AAAATCTATT TATAGGTACA GANCAATGGG TTTTGTAAAN CTGTATCACA TTTATNCTTG 240  
 CAGAAATTTA TTNCATTGTT ATTAGTAGGA ATTTTNTTGG TTCAATAAAA TTGGCAAAAN 300  
 CTGGGAAAAAN NAAANNTTN 319

(2) INFORMATION FOR SEQ ID NO: 5203:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 82  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06210

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5203:  
 GATCTGTCTA GTTCCCATTC TCTGTTCAAC CTCAGTGNTT CAAAAGTTCC TAATAAATAA 60  
 ACTCATTTGA GTTGAACCTA AA 82

(2) INFORMATION FOR SEQ ID NO: 5204:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 145  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06211

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5204:  
 GATCAAGAAA GAAGCTATCT GGGANCANTG TAGCANTTAC GTCAGACCAG GACACTTCCT 60  
 GTTTACAGGA GACTATAAAA CCTTTGTCCT ATCATCACTT GATGTGGACG NCATTTTAGG 120  
 CCTCAGCCCG CCTGCACCCA GNNNN 145

(2) INFORMATION FOR SEQ ID NO: 5205:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 295  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06213

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5205:  
 GATCAGAAGC ACCTCTTCTT TTATAGAAGT TGATGGATGG TTCATTCCAT TCTGCTACCA 60  
 AGAAGTGCAT GCTGCTGCAG CGACACCTCA TTGCAACCTA TTATGAGAGA GTAAACACA 120  
 CACTCAGTGA CATTTAGGCC TGCTCTCAAG NCCCAATTTT TATTCCATCA TTAATAAAT 180  
 CCAGTAACT TNCAAATTTG GAAACCANAA ACTAAGGCAT ACCTGGCTTA GATTCTTTCA 240  
 GAATTTTCTG NTCTTTTGTA CGTAAATTNA AAAATAATTT GTGGCAGGN TTA 295

## (2) INFORMATION FOR SEQ ID NO: 5206:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 87
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06215

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5206:

GATCTTTAAA ATNAAGTGTA CGCTTATAAT ACAAGTAATG CTTGTGTATT TCTCACTTTA 60  
 GGAAATAAAA TATTTGCCAA TTTGAAA 87

## (2) INFORMATION FOR SEQ ID NO: 5207:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 165
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06216

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5207:

GATCCTCCCA TCTCAGCCTC TCGAGTAGCT NGGACCACAG TTGTGTGCCA CCACACTTGG 60  
 GCTAACTTTT TAATTTNTTT GCGGAGACGG TATTGCTATG TTGCCAAGGN TGNTTACATG 120  
 CCAGTACAAT TTATAATANA CACTCATTTT NCCTNCCGTC TGAAA 165

## (2) INFORMATION FOR SEQ ID NO: 5208:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 116
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06217

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5208:

GATCTTCTTC AGAAGCTTCA AGTCTCANCT GCATTAAAGC TCTCCATTGA ACCCGNTCAC 60  
 AAAAGTACAA GCTTAAAGGG GCTAAAATCC ATTAATACAT NCCATNTTAT ANCCCN 116

## (2) INFORMATION FOR SEQ ID NO: 5209:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 117
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06218

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5209:

GATCCCGTGN ACCGAGTACA CGACCCAGGT ATGTACCAAG TAGGCACCCT TGGGCGCACC 60  
 CACTGGGGCC AAGGGTCGGG GGAGTGTGG GAGCCTCCTN CCCACCNNAC CTNCCTN 117

(2) INFORMATION FOR SEQ ID NO: 5210:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 181
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06219

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5210:

GATCAGCCAC TTGCTGACCC TGGTTCTTAA GGACACATGA CATTAGTCCA ATCTTTCAAA 60  
 ATCTTGTCTT AGGGCTTGTG AGGAATCAGA ACTAACCCAG GACTCAGTCC TGCTTCTTTT 120  
 GCCTCGAGTG ATTTTCCTCT GTNTTTCCT AAATAAGCAA ATGAAAACCTC TCTCCATTAA 180  
 A 181

(2) INFORMATION FOR SEQ ID NO: 5211:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 344
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06220

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5211:

GATCANAACC AGTTTGTAGA TTTCTTTGTT CCTTCTCCAT TCCCACTGCT TCACTTGCCT 60  
 AGTCTTGAAG NAAAAAACA AAAAACAAAA AAAACCTTGT TCCTTTATAG GTTCCTGGTA 120  
 GAATCAGTAG AGATGATTTC AGCTCATTGA CATTTTTTTA AGCTATATCC CCTTGTCATT 180  
 CCATTGAGAA AGCTGACAAC TGGGATAGGG AGGGGATTCTG ATAATAGATG GGGTCAAATT 240  
 CTGTGTGAAT GTGAACCTGC CTAGTAAGCA CTTTGGTCTG TGGTTCCTN CTGCGGTTAG 300  
 NGGAAATCTA TCTCCCCTAT CTTNGGGTCC TTGAACTACA GCNN 344

(2) INFORMATION FOR SEQ ID NO: 5212:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 139
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06221

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5212:

GATCACATAA CTAGGAAGTG GCAGAACTGA TTCTCCAGCC CTGGTAGCAT TTGCTCAGAG 60  
 CCTACGCTTG GTCCAGAACA TCAAACCTCA AACCCCTGGG ACAAACGACA TGAAATAAAT 120  
 GTATTTTAAA ACATCTAAA 139

(2) INFORMATION FOR SEQ ID NO: 5213:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 179  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06222  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5213:  
 GATCGTAAAC CATTATCCTT TAAAGGTNTA TTTGAAGATG CTGTTAAAGT ACAGAATTTT 60  
 GTGTACAGGT AGATTTTNCC GTCCCTCATT AATAGTGCCT TCTTAATTAA TACAGACTGG 120  
 TGTTAGCTAT AACAAACTC CAGTANNGGG GGGTGNATCC CAAGTNCTTT GTGGCNANN 179

(2) INFORMATION FOR SEQ ID NO: 5214:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 129  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06224  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5214:  
 GATCAAAATG TTCTGGAATT AGATGTGATG TTTGCACAAC TCTGTGAATG TACTAAGAAC 60  
 CACTGAATTG TATATTTTAA AAGCATGGTA TGTGAATAAT ACCTCAATAA AGCTGTTATA 120  
 AAAAATAAA 129

(2) INFORMATION FOR SEQ ID NO: 5215:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 131  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06225  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5215:  
 GATCTTCAAG CATAGNNTTG CATATTTTAA CATCTGAAAT CAGAAAGTGT CTTNNCTGGG 60  
 AGTNTGGTTT TAGAAACATG AAATAGTACT GTATGTTAAA ATCGATGGCA GTGTTGCCTC 120  
 GATGATATNT N 131

(2) INFORMATION FOR SEQ ID NO: 5216:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 190  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06226  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5216:

GATCTTTGAG CGGGACCTGA AGAAGAAGGG GCCCGAGCCG GTGCCACTGG AGTTTATCCC 60  
 AGCCCAGGGC CTGCTGGGAC GGCCGGGTGA ACTCTGTGCC CAGCACTTCA CGCTCAGCTG 120  
 ACCCTGGCCC ACCTGTNAAT AAATCTCAGC TGACCCACAGC CCACCTGTNA ATAAATNTTT 180  
 TTGCAGGAAA 190

## (2) INFORMATION FOR SEQ ID NO: 5217:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 323  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06227

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5217:

GATCCCTGGT CTTCACTAG TAGCAGCCAA AAGGAACAAG CTGAAANTGG ATACCTAATG 60  
 TAAGTGGAGT CTTCTAAGTG TTTCTGGGAA GAAGTCGGGT CCCAGGCTCN AGTTGCTGGT 120  
 TCTNACATGC CACCATCCAC AGTCCTTCAG CAGATTNATT CAGTGGCTAA TGCTGATATC 180  
 ATAAATGCGG CAAAGAAGTT TTTTCTGGC CAGANGTCAN TGGCAGCAAG TGGAAATTTG 240  
 GGNCATNCAC CTTTTTGTG ATGAGTTGTA ATACTGNNGC GCNCATTACC AGGTGAGAGC 300  
 TGGANCGTNT TTTCAGNCCN TGN 323

## (2) INFORMATION FOR SEQ ID NO: 5218:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 225  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06228

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5218:

GATCAAAGTT CAAATTAATT TTAAGTTAGC TAATNAACTC ATCACCAGGA CAGTTGGAGG 60  
 GGGTAGGCCG AGGTTAAATG GTCCACGTTT CAAAAATGTT AATGGCTAAT CCATAATTAA 120  
 AGAAGGTTTA ACTGTTACTG AAGTTTACAA GTTTTATTGT CATGNACATG AANTACAAAC 180  
 ACGATGGCTT CGAAATGTCT TTCAATAANT GTTCTGCAT TTAAA 225

## (2) INFORMATION FOR SEQ ID NO: 5219:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 317  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06229

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5219:

GATCTCATTC TCACCTCAGA AACCATTAC AACCCAGATT ATNATAGTAA TTTGCACCAG 60  
 ACTTTCTTA GACTGTTAAG TAAAAATGGA CGTGACTTT TGGCCAGCAA AGCACATTAT 120  
 TTTGGTGTAG GTGGAGGTGT TCATCTCTTT CAGAAGTTT TAGAAGAAAG AGATGTTTTT 180  
 AAGACCAGAA TACTCAAAAT AATTGATGAA GGATTGNNGA GGTTCATAAT TGNAAATACT 240

TTTAAGTTTC CTGGNTTANT TAACATTCAC TTNGTGTCC ANAATTGGNG ATAGACNGNN 300  
AGGCACANGN TGTCTN 317

(2) INFORMATION FOR SEQ ID NO: 5220:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 51
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06230

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5220:

GATCATATAC AGTTCCTTT TAAAAAGCA ATAAATNCTT GGAATTAGAA A 51

(2) INFORMATION FOR SEQ ID NO: 5221:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 103
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06232

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5221:

GATCAAGAAT GTTCCCAA GTTNTGAATA GAGTGTGACA ATGTATCCAA GANTTGTGAA 60  
GCAATGATTC TTTACAATAC AATAAAGTTT AATTATTTAC AAA 103

(2) INFORMATION FOR SEQ ID NO: 5222:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 218
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06233

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5222:

GATCTCACAG ATGTNTGGAA TTTCAAAAAG CCAAATCAC AGAAGCAGAG TAGGATGGTG 60  
GTTGCCAGGG CCTGGGACGT GGGGGAATA GGGAGATGTT TGGTGTCTGT TAGGAAGAAT 120  
GAATAAGCTC TGGAGAGCTA ATGTACAGCA TAGTGACTNN NGNTAATAGA ACCGTATTAT 180  
ATACTTGANA TTTGTGAAGA GAGTAGATGT TAANNNNN 218

(2) INFORMATION FOR SEQ ID NO: 5223:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 87
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06234



## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5223:

GATCTGTCAC TTACTTCTGT GTGACCTTTG AAAGGCTACT TATTTCTCT CTTAGCTTTC 60  
TCATTAAAT CAATGAACAA TGCCAAA 87

## (2) INFORMATION FOR SEQ ID NO: 5224:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 202  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06235

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5224:

GATCTCAGGC TGAGCAAAAT NAAACCTTGA TGTACGGGC TAAATCAAGA GCAGCTTAAT 60  
CCTGTTTACA ATGTGAGCTT TTTGTGCGTC TGTGAAATGT TTTACAGTGT TTCTCATCAT 120  
CTGTTTCCCA GCAAGGTCTT TNNTTTTNCN ACATTGAAGT NCTGNCTATG TATCTNAATC 180  
ACAAATGGNT TCATTCACTN TN 202

## (2) INFORMATION FOR SEQ ID NO: 5225:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 148  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06236

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5225:

GATCACAAGC GTATCCATNG TGAGGTTCCG TGGATGGAAG CTNATGGATN TNCCTTCCTG 60  
ATGTTTCATCT GCCACCTTGC TATTNAATGC ATCCTGTTTA TAACTGTCTT CTAAATATTG 120  
AATAGAAATA AAGCATTTGT ACAGTAAA 148

## (2) INFORMATION FOR SEQ ID NO: 5226:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 370  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06237

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5226:

GATCGAAATT GCGGGCTATG GCGCCGAAGT TTTTCGTNAG TACTGGGATA TCCCCGATGG 60  
CACCGATTGC NACCGCAAAG CCTACAGCAC CACAGTATT GCCAGCGTCG CTGACTGACC 120  
GCCGCTGCCT ACAGAGTCAC ACTCAATCCT CCGGGCACCT TCCTTGAAGG AGTGGCTAAG 180  
GTTGGACAAT ACACGTTTCA TGCAGTGCT GTCGGGGCCG TGTTTGGNCT NACCACCTGN 240  
ATCAGCGTCC ATNTCCGTNA GAAGCCCGGA CGANCNCNTG AACTACTTNN CTCGGTGGCT 300  
TTCGCCCGAG GCTTNACTTT TGGGGGNANG GACGTACAAT NTACGGGGTT TGGGGCCGCC 360

GNNTTTGGTN

370

## (2) INFORMATION FOR SEQ ID NO: 5227:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 149
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06238

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5227:

GATCTGTGTG AAGAATGGTA ATNACGTAGT TGNAAGGAA AATGTACTGT TGTGTGTTTC 60  
 ATTTGTGTGA TTTCGTACCA AAAAAATGTG TTTGAACTAT ATTGTATGTA ATTTGGAAGT 120  
 CGTGTTAATA AAACCCTGCA GTTTCCAA 149

## (2) INFORMATION FOR SEQ ID NO: 5228:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 129
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06240

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5228:

GATCAGGCTT TGAAGGCTGG ATTCTATCTA CATAAGTCN TTCAATTCCA CCATGGGNCA 60  
 GAGCAGCTCC ACCACGTGTG CACTTAGCCA TNGNTGGCAA CAGAAACCAA GAGACACANN 120  
 TACGCAGGN 129

## (2) INFORMATION FOR SEQ ID NO: 5229:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 108
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06241

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5229:

GATCATTTAG GAAAAATAAT TCTATTTTGA GCTTTTCATT TCTCAGCTGT CCTTNTTCT 60  
 NNTTTGATTT TTGACAGCAA TGGAGAATGG GNTATATAAA GACTNCCN 108

## (2) INFORMATION FOR SEQ ID NO: 5230:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 102
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06243

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5230:  
 GATCAAGAGT TGTATGCTA GGGAGACTAT TCTGCCTAAA ATTCTGGGGN ACTATTTTGT 60  
 GTTTAAGNAT ACTATGTATA TTAAAAGGGT ACATATTTGA AA 102

(2) INFORMATION FOR SEQ ID NO: 5231:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 60  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06244  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5231:  
 GATCTTAAAA GTGTTATTTT TGCTTTTATT TTTTAAAAAA GGNGAGGNT TATTGGCAAA 60

(2) INFORMATION FOR SEQ ID NO: 5232:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 76  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06246  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5232:  
 GATCTGCAGA TAGTTCTTTT TCAAAATATT GTTTAGACAA AATAAATTC TTAAATATA 60  
 ATATCTCTAC TTCAAA 76

(2) INFORMATION FOR SEQ ID NO: 5233:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 314  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06247  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5233:  
 GATCGNTCTG GTCGCAGCTT AGGAACAGCA GACGTGCACT TTGAGCGGAA GGCAGATGCC 60  
 CTGAAGGCCA TGAAGCAGTA CAACGGCGTC CCTNTGGATG GCCGCCCAT GAACATTCAG 120  
 CTTGTACAGT CNNGATTGA CGCACAGCGG AGGCCTGCAC AGAGCGTAAA CAGAGGTGGC 180  
 ATGACTAGAA ACCGTGGCGC TGGAGGTTTT GGTGGTGGTN NGGCACCCG GAGAGGCACC 240  
 CGCGGAGGCG CCCGTGGAAG AGGCAGAGGT GCCGGCAGGA TTTCAAAGCA GCAGCTTTCG 300  
 GCAGAGGAGC TTTN 314

(2) INFORMATION FOR SEQ ID NO: 5234:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 238

(B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06248  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5234:  
 GATCAATACC AAAAGACACT TGAATCTTC TTTTAGACTT CAGTACGATG ATTGCAGATG 60  
 ACATGTCTAA TTATGATGAA GAAGGAGCAT GGCCTGTNCT TATTGATGAC TTTTGGGAAT 120  
 TTGCACGCCC TCAAATTGCT GGGNCAAAAA GTACAACAGT GTAGCACTAA AGGNNCCTTC 180  
 TAGAATGTAC ATAGTCTGTA CANTAAATAC ANCAGTAAAT TGCACAGTCA GNANNNNN 238

(2) INFORMATION FOR SEQ ID NO: 5235:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 83  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06249  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5235:  
 GATCTGCAAA CAATGAAGAA TTATGTAATA TATTGTACAA ATGTAAGCAA AGGCTCTGAA 60  
 ATAAAATGCC ATAGTTTGTG AAA 83

(2) INFORMATION FOR SEQ ID NO: 5236:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 178  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06250  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5236:  
 GATCTTAAAT ATCTTGCAGC CTTAAATCAC TACAAACATT TGCATTNTTA TTATGCCAGT 60  
 TATTTCCAAA ANGATTGTN ATACATGTCA CTTATGTTTT TAAGCTANTA TTGACTGTAG 120  
 GATAATCTCC TTGTTCCCCT CAAAATAGTC ATGNAAGTGT ACATGAANNT NTTTTTAN 178

(2) INFORMATION FOR SEQ ID NO: 5237:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 139  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06251  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5237:  
 GATCTGAAGA GCTTTCAGC TCTNTTAAAT AGGTTGCTGN ACATGTTCTA AGGTTTTGTA 60

GAACACGTGT GCCTGTTTAA GTGTATTGAT GTTAATANTA TTAAATATCC TAATGATNGA 120  
 ATGCATTGTA TGGNTNCTN 139

(2) INFORMATION FOR SEQ ID NO: 5238:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 363  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06253

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5238:

GATCTAAGCC ACAGNGGGGA CTGGAGCCTC GTTTTCCCCC TAGGCAGACC TAAATCAAGC 60  
 AGCTTACCAC AATAGTGCAT GCTGAGTAGA TTAGTTCCAA GGAAGGGAGA CTGGAATGCT 120  
 GGTGTCAAGG AAAAGCCTCC CTCATCATCT AGTCTAAGAC CATAACGGGC AGAAGCATAA 180  
 GAGGTTCCAG GGCCATAGGN GANTGAGAAG TAGGGCACAT ATAGGGAGGA AAGAAAAGTG 240  
 NAGNNGGGGG ANATCTCCGA NTTTTTTTAC TGCTTGGGAA AAGTGACTA CATGANGGNT 300  
 GCTTNGGGCT TTGCTAACCT GTCACCGCT AACCTNCCA AGTNTTAACC ATCCCCAGNG 360  
 GTN 363

(2) INFORMATION FOR SEQ ID NO: 5239:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 171  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06254

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5239:

GATCTGAGGA ACAAATGAT GTCATTTAAT CGGAATCTAA ATGTGACACA AACAACGTGC 60  
 CAGCAATACC TGCTTGTGAA ATAATGTTCT GAGCCCACAG TGTTCTTGGG TATGTGAGTT 120  
 TATATCAAGT GAAAAGGCTG CTTAATTGAC ATTAAAGTTT TGGAATGTAA A 171

(2) INFORMATION FOR SEQ ID NO: 5240:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 348  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06255

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5240:

GATCATAAGT ATAAATGTCC TCGTTTAATC TTTCCATATT GAGGACAGCC TCTGCATATA 60  
 AAAATGTTCA TTGGGAGAAA AATTATTTTT AAAACTAAAT TTTTATAGTA GTCCTCCATT 120  
 ACTGGCAATT AAGGAGCAAC CCACAAAATG TCATTATGTG GTTCTTTGAT TAGGCATAAA 180  
 ANGATTGCA AACAGCTTTN CTATTCCTTT GGAATATGAN TCTTTTAAAT GTCTAANGTT 240  
 AACCTGCAAC ATATTCTAGT AGGACANGTC AATGTAAATN AGGTAATTNT NGCCTGTNTT 300  
 ATACCTNCTG TNGCCATTTG GTNCAAATGN NAACCATTTN TNAGNCCN 348

## (2) INFORMATION FOR SEQ ID NO: 5241:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 357
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06256

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5241:

```

GATCAACAAG AGAAATAAAA AAGCCCAAGA GGAAGTGGTA GGGGAAGGAA TTTAAGAACA 60
GCAATAAGTA AAACCTCTTA GTAACCTCAA AAAGAAAATG GTACATTTTG CCAAAGACCA 120
CTTATACTTG AGAACATGGA AGAATTTGCC TGATACTNNN NGNNGGGGAA AAGAGTCTCT 180
CCTCTTTTCC TCAAACCCCA GTACACTCAG CCTCTNTGCC CCACCTTCTC CTGACTTTGT 240
CCTCACTTGC TTCTGCAGTA CATTGGAACC TGNNTTGAAA GAAAGTCTTC CTTGANTAAT 300
TGGAGTTTGT CTTTGNNGNG CAAATTTAGN CCCNNGGNTC ACAAGNTTTC GGGGGTN 357

```

## (2) INFORMATION FOR SEQ ID NO: 5242:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 160
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06257

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5242:

```

GATCGGGGAC ATCCTTAGGC TGGTGGCCGG CCGCATCAAG AACACCTTCT GATTGAGCGG 60
TTGCCATGGC CGGTCTCCGT GGGGCAGGGT TGGGCCGCAT GTGGAAGGGC TCTGAGCTGT 120
GTCCTCCTTC ATTAAAAGTT TTTATGTCTC GTGTCAGAAA 160

```

## (2) INFORMATION FOR SEQ ID NO: 5243:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 122
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06258

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5243:

```

GATCAGACTA AAAACNATAA CACCATAGGT CAAAANAAGT TGTTCTGAGG TTTTTTTGAA 60
ACATTAAAGN TCCAAAACAT GACATTTTGA AGAATAAATT TGNAATAGAG TATAATTGNN 120
TN 122

```

## (2) INFORMATION FOR SEQ ID NO: 5244:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 71
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single

(D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06259  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5244:  
 GATCTCCCCT CTCACCCCTC CCACCCATTA ATCTCCTCCC AAAAAACAAG TAAAGTTATT 60  
 CTCAATCCAA A 71

(2) INFORMATION FOR SEQ ID NO: 5245:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 114  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06260  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5245:  
 GATCTGTTGT AATATATGGT GGATATTTTC CTTTAATTTT AAACATAACC TCTGAAATNT 60  
 GTATCTNTCC TTTTTNATCT TACCATTANT TTAAATCTA GTGGATTGGT TTTN 114

(2) INFORMATION FOR SEQ ID NO: 5246:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 337  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06261  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5246:  
 GATCAGACCG CTCAAAGGTC CCCGTTNTCA CTGTTACCCA GAGGCTCTTG TNACTACCCA 60  
 CTTCAATCCC CACCGCTGCC AGTGCCACTG CCAACCCTGT TCACAGGCGN TTCCAGCCCA 120  
 CTCCAGCCAG GGGAGCAGGG AAGAAGAAGG GGCTCCCTCC TCTTCACATT CCCCCGACC 180  
 CCAAAGCCAG AGAAAGCCAG ATGGCACCAG CTGCTCCGGA TGTGCCTGCC CACATTGGGG 240  
 GACAGGGCCG GGCCTGGGCT CGGTTCCNAG GTTTGAGCTC TGCAGNCTGT GTCCTGGNGT 300  
 GAGGGGGCTG AAGTNAGNCC AAAGGAAGAA CTNAGTN 337

(2) INFORMATION FOR SEQ ID NO: 5247:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 168  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06262  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5247:  
 GATCACCTNA TTTTTTNAAC AAAATATTTN TAACAGGAAT GGGTGGGAGT NCTGGTGAAA 60  
 AGAGGTGAAA TGTGGTTGTA TGAGCCAATC ATATTTGTAA TTNTTTAAAA AAAGTTTAAA 120

AGGAAATATC TGTCTGAAA CCCCACTTAA GCATTGTNTT NNTATAAN

168

## (2) INFORMATION FOR SEQ ID NO: 5248:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 378
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06264

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5248:

```

GATCAACAAA GAGGACTTTG TGGCACTGGA GAGGCTTACC CAGGGGATGG ACATTCAGTG 60
GATGCATGTT NCTGGTCATT CGGGATTTAT AGGCAATGAA GAAGCTGACA GATTAGCCAG 120
AGAAGGAGCT AAACAATCGG AAGACTGAGC CATGTGACTT TAGTCCTTNG GAGAACTTNA 180
GCCAGCGGCT GTCTTGCTGC CTGTACTTAC TTGTGTGGAA AATAGCCTGC AGGTAGGACC 240
ATTGCAGTGA TGGGCAGATT GGGTCTTTCA CACGGNGTCA GGCACAGTGG CCTTCTGTNG 300
NCATGGTNGT TTTATANANA AATNGGTAA GGTATATAAA TAAAGTNTGG NCCANCTTTT 360
GNNAAGGNAN GANATGGN 378

```

## (2) INFORMATION FOR SEQ ID NO: 5249:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 131
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06267

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5249:

```

GATCANCTAC AGGAAAAGTA AATGTGAACG CAAGCAGAAT GAAACACAGT AAAAGCCGGT 60
CTAGCCTGCC TGGCCACACT CTCAGCGCCT TGTGAGGATG GGNCANTANA TAAANTCATC 120
TTTAGTAGAA A 131

```

## (2) INFORMATION FOR SEQ ID NO: 5250:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 322
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06268

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5250:

```

GATCATCACT AGCAGATGTC AGTTGCACAT TGAGTCCTTT ATGAAATTCA TAAATAAAGA 60
ATTGTTCTTT CTTTGTGGTT TTAATAAGAG TTCAAGAATT GTTCAGAGTC TTGTAAATGT 120
TATTTTAATA ATCCCTTTAA ATNTNATCTG TTGCTGTTAC CTCTTGAAAT ATGATTTATT 180
TAGATTGCTA ATCCCACTCA TTCAGGAAAT GCCAGGNAGG TATTCCTTGG GGAAATGGTG 240
CCTCTTACAG TGTAATNTT NCCTCCTGNA CCTTTGCTAA TATCATGGCA GANTTNNCCT 300
NATCCCTTTG TGAGGCAGTT TN 322

```



## (2) INFORMATION FOR SEQ ID NO: 5251:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 215
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06269

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5251:

```
GATCAAAAT AAGATTACAG TTAAATATT NCTATATTCA GATGGTTTAG AGACCAGGCT 60
GTAGAATCAG ACAGCCCTGA AATTGTATCA CACANGGCTG TGTTACCCTG TACAAATAAC 120
TTAGCCTTAC TAAGCCTGTA TTTCTCATC TGCAAANTAG GGNTGNTAAT ATACCTGTNG 180
NTAAANATGT TTTCATTAAA AANCGTTGGC GCAAA 215
```

## (2) INFORMATION FOR SEQ ID NO: 5252:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 229
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06270

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5252:

```
GATCTAAAGT GCAGCAGAGT GGCTGNTGCT GCAAGTNATG TCTAAGGCTA GGAACATATCA 60
GGTGTCTATA ATTGTAGCAC ATGGAGAAAG CAANTGTAAA ACTGGATAAG AAAATTATTT 120
TGGCAGTTCA GCCCNTTCCC TTTTCCAC TAANTTTTN CTTAAATTAC CCATGTAACC 180
ATTTNANCTC TCCAGTGCAC TTTGCCATTA ANGTCCTCTGC ACATTGAAA 229
```

## (2) INFORMATION FOR SEQ ID NO: 5253:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 219
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06271

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5253:

```
GATCGTGAAA GAGGCTTACC CAGACCACAC ACANGTTTGA GAAAAACAAT CCCCATATN 60
ACCCATCTAG CAAAGAGGAC AACCCTAAGT GGTCCATGNG TGGATGTACA GTTTGTNCGG 120
ATGATGAAGC GTTTCATTCC CCTGGCTGAG CTCAAATCCT GTCATCAAGG CNCACAANGC 180
TACTGNTGGC CCCTNAAAAA ATATTGTTNT NTGTCACTN 219
```

## (2) INFORMATION FOR SEQ ID NO: 5254:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 144
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06272

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5254:

GATCACGCTG AAAGAATACC TTGCAGACAC TTAATCTCTG CGGCAAATGC ATGAAAGTAG 60  
 AAGGATGAAG CCAACTTTCC AAAAACTTTT ATGAAATTAC TTCAGTGNGA AAACCTATTA 120  
 AATNAANTNC AGCCNTTCTN TAAA 144

## (2) INFORMATION FOR SEQ ID NO: 5255:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 184  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06273

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5255:

GATCCCGGGG ACATGATGCG GGAAATCCGC AAAGTNTTGG ACGCCAATAA CTGCGACTAT 60  
 GAGCAGAGNG AGCGCTTCTN GCTCTNCTGC GTCCACGGAG ATGGGCACGC GGAGAACCTC 120  
 GTGCAGTGGG AAATGGGAAG TNTGCAAGCT GCCAAGACTN TCTCTNNACG GGGGTCCGGG 180  
 TNTN 184

## (2) INFORMATION FOR SEQ ID NO: 5256:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 97  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06274

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5256:

GATCAATGTG GGCACCTAAA AGGGTATGTT AAAATCACCA TTTCTCAGGT CAAAATACTG 60  
 TGAATAAGTC TTCAATAGAA TCACTANTGG TTNNAAA 97

## (2) INFORMATION FOR SEQ ID NO: 5257:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 173  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06275

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5257:

GATCATATCT ACATGTATGA ACTTAACATG GAAAATGTTA AGGAAGCAAA TGGTTGTAAC 60  
 TTTGTAAGTA CTTATAACAT GGTGTATCTN TNTNCTTATG AATATNCTGT ATTATAACCA 120  
 TTGTTTCTGT AGTTTAATTA AAACATTTCN TTGGTGTTAG CTTTCTCAG AAA 173

## (2) INFORMATION FOR SEQ ID NO: 5258:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 176
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06277

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5258:

```
GATCTTTCTG GGAGCTGCGC CGGACAGAGT GGGGAGCTCC TAGTTTNTGG GGGGAAGCTT 60
TGATATCCAT GCCACGTCCA TCCACCCAC CCCTNTTCGT CACGAGCACA ATGGTCTTAC 120
ATTNGATNTN TGTAAAAAAA TANAAATAAA TGGAGACTTT AACTCAAGCA ANNAAN 176
```

## (2) INFORMATION FOR SEQ ID NO: 5259:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 93
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06278

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5259:

```
GATCATTTGA ACCTAGGAGT TAGAGGCTGC AGTGAGCTAG AATTGCACCA CTGNATTGCA 60
CCTTGGACAA CAGAGTAAGA CTCCGTCACC AAA 93
```

## (2) INFORMATION FOR SEQ ID NO: 5260:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 296
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06279

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5260:

```
GATCAGGAGG CCACCCCTT CTGTGGCACT TCTGAGATGA CAACTTGTTT CACAGTTGGA 60
TGGGGGTGGG GAAGGAAAGA GCGGCCCAT TATTCCAGAA CATTTTATCC ACACAGGCTC 120
AGACACCCTG TGATGAAGAG TCCAAGAACA GCCTGAGATA AGGATGTCAT TTTNTTTTCA 180
CAGNCCCAC GATGGGTTTA TTTTGGGA CCAAGACATT GGGTCCCTAC ATGTTTTCCC 240
CTACCCTTCT NNGGGAATAA AATATCAAAC ANCCNCANA GNTGTNNTAT TNNTGN 296
```

## (2) INFORMATION FOR SEQ ID NO: 5261:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 61
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06280

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5261:

GATCTATTGA CTTGTAGAGG TTTGGGACAA ACAGGAATAT AAAGATTATG GAATTGGGAA 60  
 A 61

## (2) INFORMATION FOR SEQ ID NO: 5262:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 339  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06281

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5262:

GATCACTGCA AAACCTCAAGG AGGCCCCGGGG CAGAGGAAAA AAATTTACCA CCGATGATTC 60  
 CATTTGTGTG CTGGGAATAA GCAAAAGAAA CGTTATTTT NAACCTGTGG CAGAGCTGAA 120  
 GAAGCAAACG GATTTTAAGC ACAGGATTCC CAAAGANCAG TGGTGGCTCA AGCTACGGCC 180  
 CCTCATGAAA ATCCTGGCCA AGTACAAGGC CAGCTATGAC GTGTCGGACT CAGGCCAGCT 240  
 GGAANCATGT GCAGNNCTGG NGTGTCTGAC CCAGTCCCGN CTGCATGTGC CTGCAGCCAC 300  
 CGTGGNCTGT CTCTTTTTTG TNACACTTAA GTTNTTTN 339

## (2) INFORMATION FOR SEQ ID NO: 5263:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 258  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06282

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5263:

GATCTTATCT ACTTTCTCAT CTCCATATTT TGTAAAGAT AATATTGCCA GATGTAAAGA 60  
 AAATGGTTTA TTCTACCTAA AGAGTGGATA AGGAGAGAAN ATTATGATGA AATAAAATTT 120  
 ATAAGCAAAG TTTATTTAAN CTAAATTTAA ATGTGAAACA TCACCTTTT CCTANTCAGA 180  
 TTTGATATTG CTACGGATAT ATNTTGNTGA TATNGTCACT ATATANNCAT ANGGGGANTT 240  
 TNACTNTCTA TTACCCTN 258

## (2) INFORMATION FOR SEQ ID NO: 5264:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 102  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06283

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5264:

GATCTCTCTC CTCTCTGACC TGGATACGCT TTGGTTTCTC AACTTCTCTA CCCCAGAGAA 60  
 AAGATTATTC AATAAGTTT CTGCCTTTC TGCAACATA AA 102

## (2) INFORMATION FOR SEQ ID NO: 5265:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 196
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06284

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5265:

```
GATCTAGATT TGAAAGTAAA TTTATGAAG ACATTGCCCA TTTTACTTC CTCATTCATT 60
ATTGTACCAG CATCATAGCT TTATTACTCT AATCCCAGGT AAGTCAAGCC TACTGCCC 120
TAGNGGNNGC GTAAACCCAG AANTTCATGC TGGCTTAANT AATCTATTTT TGTTCTNAT 180
CNTTTGAATN TTTAAN 196
```

## (2) INFORMATION FOR SEQ ID NO: 5266:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 203
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06286

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5266:

```
GATCAGCCTG GGCAACATGG TGAGACCCTG TCTCTACAGA AAAGACCTGA AAATTTTAAA 60
AAAAAGTATA AAGCCAAGCT GTTACCCAGC CACCTTGCTC ACATATTCTC AGGACCTGCT 120
GAGGTGGTTT CACAGGTCAT AGTCCTCACA TTTGCTCAGA ATAAATATCT TCAAATATTT 180
AAANNNGGN NANAATNTNT GNN 203
```

## (2) INFORMATION FOR SEQ ID NO: 5267:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 136
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06288

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5267:

```
GATCTGGACT ATCCACGTGC TTTGAACTT TTCCCCTCAC CCTCCAGCCC TGGAGGCTTT 60
TGCTGGGATG AATGTTTTTA TAGGGTTTTT GTTGTAACAT AAGCTATTTT CTAATATGCT 120
GCCAGGTACC CTAAA 136
```

## (2) INFORMATION FOR SEQ ID NO: 5268:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 71
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06289  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5268:  
 GATCTNGGAC TACNACTGGA CTACTAGCCT CCAGAACTAT NAAATAATAC ATTTCTAATG 60  
 TCTAAGCCAA A 71

(2) INFORMATION FOR SEQ ID NO: 5269:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 345  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06290  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5269:  
 GATCGGTTTT TGTGGGGAAT CTCCCTTATA AAGTTGAAGA ATCTGCCATT GAGAAGCACT 60  
 TTCTGGACTG TGGAAGTATC ATGGCCGTGA GGATTGTNAG AGACAAAATG ACAGGCATCG 120  
 GCAAAGGGTT TGGCTATGTG CTCTTTGAGA ATACAGATTC TGTTTCATCTT GCTCTGAAAT 180  
 TAAATAATTC TGAACATCATG GGGAGAAAAC TCAGAGTCAT GCGTTCTGTT AATAAAGAAA 240  
 AATTTAANCA ACAAATTCA AATCCACGAT TGANGAATGT CAGTAAACCT AAGCAGGGAC 300  
 TTAATTTTAC TTCCAAACT GCAGAAGGNC ATCCTAAAAG CTTGN 345

(2) INFORMATION FOR SEQ ID NO: 5270:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 132  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06291  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5270:  
 GATCTCTGCT GTGCAGGTGC TAAGATTAAA CACTAAAAAG AAAGAGAGAT ATATGTAATG 60  
 TACAACTGAC ACTGCCATTT TNCCTTTTGG GAGGAAATGG ACATAGATAA AGAAGATATT 120  
 TCTNCGGTTA AA 132

(2) INFORMATION FOR SEQ ID NO: 5271:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 111  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06292  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5271:  
 GATCTTCTGC CAAGTAATTT TTTTGCACAA TTTTCTGTN CCAAANTTTA CTCAGTTAAA 60  
 AGTAAANAA TNCTTTACAC GTTTTAGGTT TTAGGACATT AAAAGTATGT N 111

## (2) INFORMATION FOR SEQ ID NO: 5272:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 117
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06293

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5272:

GATCATCTTA CGATATCAAG CTGAAAATTT CACCACTACC TGGACAGTTN CACATGTTTT 60  
 ACTGGGAATA TTTTCTTT NTTTNTGTA TGCTCTGTGC TAGTAGGNTT GATTGAN 117

## (2) INFORMATION FOR SEQ ID NO: 5273:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 232
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06294

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5273:

GATCATATTC ATTATGAAAG GTCAAGCAAA GACAGCAGAN TACCAATCAC TTCATCATTT 60  
 AGGAAGTATG GGAATAAGT TANGGAAATC CAGAAAGANG CCAAGATATA TCCTTATTTT 120  
 CATTTCCTAA CAACTACTAT GATAAATGTG ANGAGGATTC TTTTTNTTG TGACCTATAA 180  
 TANTTNTACA NGCTTTCATG CATTTACTTG GTCCTAAGCA AATTANNGC AN 232

## (2) INFORMATION FOR SEQ ID NO: 5274:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 56
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06295

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5274:

GATCAAGTAT AATGTTAGCT GCAGGTTTTT AATAAATACC TTAATTCAGT TTGAAA 56

## (2) INFORMATION FOR SEQ ID NO: 5275:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 125
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06296

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5275:

GATCCTGAAC ATGTGCTGAT TTNAATTGTG CTATATAGTA TATAAANTAA AATANTTTTG 60  
 GTATTTCTGC AACGTGACCT GATAATNAAT CTATTCATCC TGAGNAAGCT ATACTTCTGT 120  
 CCNTN 125

## (2) INFORMATION FOR SEQ ID NO: 5276:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 198
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06297

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5276:

GATCATTGGT TCCANNCACA GGTNTAGTAA TNNTGGGTAC TTTAAGGTTT GGAGCACTTA 60  
 CAAGGCTGTG GTAGAATCAT ACCCCATGGA TACCACATAT TAAACCATGT ATATCTGTGG 120  
 AATACTCAAT GTGTACACCT TTNACTACAG CTGCAGAAGT GTTCCGGNTA GACAAAGTTG 180  
 TGACCCGGGG NNCTCTGN 198

## (2) INFORMATION FOR SEQ ID NO: 5277:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 231
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06299

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5277:

GATCTCAAGT TGTATAAAAC CAATAAATTT GTGTTACTGC AGTAGTAATC TTATGCACAC 60  
 GGTGATTTC A TGTTATATAT GCAAAGNAGG CAACTGTTTT CTTAGTTACA GAAGTTTCAN 120  
 GCTTCACTTT TGTGCAGTAG AAACAAAAGT AGGCTACAGT CTGTGCCATG TTGATGTACA 180  
 GTTTCTGAAA TTGTTTTTACA AGACTTTGAT AATAAAACCC TTAANCTTAA A 231

## (2) INFORMATION FOR SEQ ID NO: 5278:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 180
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06300

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5278:

GATCAAGNGC CATAGCCTTT ATTCAGGGGG CCTATAAACC CTTCCAGTTC TTGCCCCAGG 60  
 GCTGGCCTGC TAGCGCTTCA AATTCCCAGG TGTCCCTAAT TTNAGAAGTA ACCTTTTGA 120  
 ATAGCATTAG ACCCTGGCTG TCCCCTCCCC ACCAAATAAA CATGATATTT CATTCTNAAA 180

## (2) INFORMATION FOR SEQ ID NO: 5279:

## (i) SEQUENCE CHARACTERISTICS:



(A) LENGTH: 158  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06301  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5279:  
 GATCAAGNNT ANTGCAGCCN TTCTTTTCCT ATTTCTTTTT TTNAAGGGTT AGTATTAACA 60  
 AATGGCAATA AGTAGAAAAG TTAACATGAA GATTTTAGAA GGAGAGAACT TACAGGACAC 120  
 AGATTTGTNA TTCTTTGACT GTNACACTAT TGGATGTN 158

(2) INFORMATION FOR SEQ ID NO: 5280:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 375  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06302  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5280:  
 GATCGAACAT NACGTGGTGA TGAAAGCCAN CAGCAGCCTA CCCAAGAAGC TGGCACTGCT 60  
 GAAGGCCCCA GCCAAGAAGA AAGGGGCAGC TGCCGCCACC TCCTCCAAGA CACCTTCCTG 120  
 AGGACGCTGG CCCAGTGCA GGCCAACATC NCACCCCTA CCTCCATATG GGACCTTGCA 180  
 GGTAATCCCA CAGGCTGCAC TGTCAGGGGG GGGACCCTGT CCCCAGCAC TGGGCTTCAC 240  
 CTAGAACTTC AGTGGGGGCC AAGGGTGCTG AGAACCCAGC AATGNCCAGG ANGATACAGT 300  
 CACTAACTT CATCTGTCCC CGTGCCCCTT CCCAGGTCCT GNTTCACAGG TTTAACCAG 360  
 NACANTAAAN CCTNN 375

(2) INFORMATION FOR SEQ ID NO: 5281:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 272  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06303  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5281:  
 GATCAGGATG AGATTTAATG CCCATATCTT ACCAGTTCAG TAATCTCCAG AGCCATTTC 60  
 CCCTTTAGAG TGAGTCACAT GCAGGGAGTG TGAATGTCAG AGGTGGTTTA TTATCCAGTC 120  
 TGCCTTACCC TTAATCTGTT CACAGATATT TATTTACTAA TGCTTTTTTT TTCTTAAGAG 180  
 TTATGGGATA GGAAAATGAA GTGTTTGCTC TTCATTTACT AAATGATTGT AAAGTTGAGT 240  
 TTTTCATCAA AATAAAATTC CATTGTTTTA AA 272

(2) INFORMATION FOR SEQ ID NO: 5282:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 379  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single

(D) TOPOLOGY: linear  
(vii) IMMEDIATE SOURCE:  
(B) CLONE: HUMGS06304.  
(ix) FEATURE:  
(D) OTHER INFORMATION: "N"=unidentified base  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5282:  
GATCCAAGGC CACAAGTAAG GCTATGGCTC TAATTCTAGA AGACAACCTT CCAAGATGCC 60  
TGGCAAAACC ACCTCCCTGT GCCACACAGA CACACTAGGC CTGTGTATTT ATTTCCCCTT 120  
CAAAGCAGAC TGAGGAGGGA GGAGACGAGG TTCTCTGGC ATCACTTTCT CCCTGGCTGC 180  
AGAACTAGAC ACCCTTGAAG ATTTGGCCTG GGCCAGTNAG ACTGAAATCA AGAAAAACAG 240  
AAGGGATGTG CAGGGTGGGG GGGTNCACCTT CCTGCTCCCA TGTCAACCCC CAGGGCCTCC 300  
AGCGTGCAGA CGCGTGTCTT ANTTNATCTG CTCCCACGGA TGANCTTGGT CTTCAATGGG 360  
TTAGCAGNNG NGAGATNTN 379

(2) INFORMATION FOR SEQ ID NO: 5283:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 377  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear  
(vii) IMMEDIATE SOURCE:  
(B) CLONE: HUMGS06305  
(ix) FEATURE:  
(D) OTHER INFORMATION: "N"=unidentified base  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5283:  
GATCCTCTGA AAAGGCCAG AAAAATAGCT CAGTTCAAAT ACAATGTTCT AGGACAATTG 60  
GAATATAAAT ATTGTCCAAA AATATAATTA AAAGAAAAAA GTTTAGCACT GTGTAAAGTA 120  
AGTGTTAAC T GAGGAAGTCC CAAAAGGTG CTGTCACTTT AAGTTCTGGA CTTGGGGGTTT 180  
TTTGTATTTG TAAACAGCAA NGCATTGTG TTTGTTTGTG TATTTGTAAA GCANCCACCT 240  
TCCTTATTGG NAGGNGANAA NNNGGGGTNC ATNCATGTNA NTACTTGCTG CAGCATTNA 300  
TATGTTTAT TTTGTGTTAN GCTTTTGTG GCATCGTGMN CACATTATTT GTTACCAATG 360  
GACATGGGTT CTTTGTN 377

(2) INFORMATION FOR SEQ ID NO: 5284:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 151  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear  
(vii) IMMEDIATE SOURCE:  
(B) CLONE: HUMGS06306  
(ix) FEATURE:  
(D) OTHER INFORMATION: "N"=unidentified base  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5284:  
GATCGTAGTG TTTTAAATA AACACAGTCC AGACTCAAAC GGAGGAAGCC CACATATTCT 60  
ATTATAGATA TATAANTANT CACACACACA CTTGCTGTCA ATNTTTTGAG TCAGTGCATT 120  
TCAAGGAACA GCCACANAAT ACACACCCNN N 151

(2) INFORMATION FOR SEQ ID NO: 5285:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 325  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06307  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5285:  
 GATCAACTGA GGAAACTCCA GGCCATGGTG ATTGANATAT CAAACAAAAC CAGCAGCAGC 60  
 AGCACCTGCA TCTTGGTCCT ACTAGTCTCC TTCTGCCTCC TCCTTGTAAC TGCTATGTAC 120  
 TCCTCTGACA CAAGGGGGAG CCTGCCAGCT GAGCATGGNG TGTGTGTCCTG CCAGCTTCGT 180  
 GCCCTCCCCA GTGAGGACCC TTACCAGCTG GAGCTGCCTG CCCTGCAGTC AGAAGTGCCG 240  
 AAAGACAGCA CACACCAGTG GTTGGACGGC TCAGACTGTG TACTCCAGGN CCCTGGCAAC 300  
 ANTTCTTGCC TGCTGCATNA CNGAN 325

(2) INFORMATION FOR SEQ ID NO: 5286:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 204  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06308  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5286:  
 GATCTGCCTC CTGGGAAGGG AAGGGGCCAA TGTCAGCCTC CAGGTGATTT CTTTAATCTG 60  
 ACATTACAAA GAGACCAACA GACTGCCAAT TCTACCACAT TCCCCTGGTG GGTACTCGAC 120  
 TATGTAGTTT TNTCTATGCT TCTGGTCAAC TCTGACACAT CTTGGAATTC TTGTAATAAG 180  
 AAAAGAAATT TTTATACTTT TAAA 204

(2) INFORMATION FOR SEQ ID NO: 5287:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 219  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06309  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5287:  
 GATCTCAAAA CAGTCGGACC AGATGACAGC CAAACTCTGC TAACCCGGGA CTCCTTGCCA 60  
 TGGACTTTTC CTGTTGTTGT ACACACACAA CAGAACAAAA TGANGCAAAA CAAAACAAAA 120  
 AAACCCACAA AANTTTGTAA AATGTAATTA ATATTCAANG AAAAGGNGGA AANTCTTCAT 180  
 TTGTTGGAAA TGAAANCGTT CTAGCAACTG TAANNNANN 219

(2) INFORMATION FOR SEQ ID NO: 5288:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 259  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06310  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5288:  
 GATCTTAAAA TTCATGTAGA TTTCAAGCAT TCAGCTGACT TGCCTCATAA ATGTAGTGAC 60  
 TGCTTGATGA GGT TTGGAAA TGAAAGGGAA TTAATAAGTC ACCTTCCAGT CCATGAGACA 120  
 ACTNGATTAT TCTCTNTAAC TTACAGAATG TTAGTNTAAA ATAATAAATN CATCCTTNTT 180  
 TTGGAGATGA TTAAATGGAT GATTGTAAAC ACAACTTATG AAATCTGCCT NTAACAAGTA 240  
 NCTTTNTTAA ATNNTANN 259

(2) INFORMATION FOR SEQ ID NO: 5289:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 99  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06311

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5289:

GATCTTATTG GCTGATGGTG TTGTTGAATT CTATATCCTG TTGATTGCT GTCTAGTTGT 60  
 TCTATCAATT ATTAAAAGAG GAATGTTAAT GTTTCCAAA 99

(2) INFORMATION FOR SEQ ID NO: 5290:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 81  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06313

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5290:

GATCAAATAC TTAAAGGAA AAAATGTTGG ATTTATAAAT NCTATTTTTT ATTTTACTTT 60  
 TATAATAAAA GGAAAAGCAA A 81

(2) INFORMATION FOR SEQ ID NO: 5291:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 132  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06314

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5291:

GATCTGAAGG CCGTTCCAAG CGAGGGTGCT TCTGAGGACA CTGAGAAGAG TTTTGCCATT 60  
 CTGAAGAGGC GAGCCTGTGG AACTNTTTAA GGTCTGTTC CCAGAAGAAT AAAAGTTTCT 120  
 CATTATGGCA AA 132

(2) INFORMATION FOR SEQ ID NO: 5292:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 102  
 (B) TYPE: nucleic acid

(C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06315  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5292:  
 GATCACTCTC CCTGACATCC ACCTGTATGA CTTTGTACC AAATGCTGTC TTCTCTTTCT 60  
 CCAATCAAGA AATAATAATC CCTCGAGTTT ACAAACACA AA 102

(2) INFORMATION FOR SEQ ID NO: 5293:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 196  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06316  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5293:  
 GATCTCANCT TCATGCCAGG CCTTGGGTTT GACAAACATG GCAACCGACT GGGGAGGGGC 60  
 AAGGNCTACT ATNATGCCTA TCTGAAGCNC TGTTTGCAGC ATCAGGAAGT GAAGCCCTAC 120  
 ACCCTGGCGT TGGCTTTCAA AGANCAGNTT TNCCTCCAGG TCCCAGTGAA TGAAAACGAC 180  
 ATTGAAGNTA GATGNN 196

(2) INFORMATION FOR SEQ ID NO: 5294:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 237  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06317  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5294:  
 GATCAAGAAG TTTGTGTACA CATAATCTCA TTTTNAGATA TATAACTATT TTTNTCTTTC 60  
 AGAAGTGAAT CAAAATATTT CAAAATGCTG TCTTATGAAA CTACAATATT CTCACAGATT 120  
 AGAAAAGTTT TNCTGTAAAA GTCAGATAGT AAATATTTNA GGTTTTGCAG TGTCTNTTGC 180  
 ANCTNCTCAA CTTTCCTACT GTNGCACANG NGTAGCTGTG GTACTGTGCA AATNAAN 237

(2) INFORMATION FOR SEQ ID NO: 5295:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 125  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06318  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5295:  
 GATCACTACC TTTTTTCTC TNATCTGCTG CCATNTGAGA TGTGGCTTTC ACCTCCGCC 60

ATGATTGTAA GGCCTTCCCA GCCCCGTGGN CCTGTAAGTC CANTAAACCT CTTTGTAA 120  
TTAAA 125

(2) INFORMATION FOR SEQ ID NO: 5296:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 198
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06319

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5296:

GATCTTACAG ACTGTATCAG TCTAATTTTT AAATTTTAAG TTATTTTGTA CAGCTTTGTA 60  
AATTCTTAAC ATTTTATAT TGCCATGTTT ATTTTGTTT GGTAATTGG TTCATTAAGT 120  
ACATAGCTAA GGTAATGAAC ATCTTTTCA GTAATTGTAA AGTGATTAT TCAGANTAAA 180  
TTTTTTGTGC TTATGAAA 198

(2) INFORMATION FOR SEQ ID NO: 5297:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 129
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06320

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5297:

GATCTAATTT CCCTNTTCAC ACAAACTTTA CACTTTAATC TGATGATTGG ATATTTAATT 60  
NNAGTGAACA TCATCTTGTT AGCTAACTTT AAAAANTGGA TGTAGAATGA TTAANGGTTG 120  
GTATGATNN 129

(2) INFORMATION FOR SEQ ID NO: 5298:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 143
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06321

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5298:

GATCTGTGCC ACTTGTGTCA GAGAAGAAGA AACACGTAGN GCAAGTTGTA AAATAATTGG 60  
TATTCCTAAC AATCCTGATG TATAATTNTT TGTTACTTTT GNTTTGAGAA CTCTACANAT 120  
AAAAGTGCTG GGACTAGATT AAA 143

(2) INFORMATION FOR SEQ ID NO: 5299:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 334
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single

(D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06322  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5299:  
 GATCTCTTCG ACTCCTACGA CCTTGGGGAC CTGTTGATTA ATTGAGTGGC CCTGCCTGCC 60  
 CCCAGCAGCC TGCCCCCGAC TCTACCTCCT CACAGACAGG CTGACAGCCC CTCTGCCTGC 120  
 ACAGGGACAT TGGACACTAG GTGCTGCCCT CAGGGCATGG GGTCTCCTCG CCTTTCCTGC 180  
 CCCAGCCGGC AGAAGCTGTG TGGGGNGNNA TGAATGGTAC GGGTGAGGAG TGGATAAGGG 240  
 GTGGTCCTCA CCTTNTAAT GGAAGCTGGG CCTAGGGAGG CCCATNCAGT CTTCTGACTT 300  
 CTNGACCTCT NACAAGAAGG NTGCAGGTGA GGTN 334

(2) INFORMATION FOR SEQ ID NO: 5300:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 337  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06323  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5300:  
 GATCTGGAGC CAGCTGGCTT TGCTCCGTTT CCTGGCTAGT CTGTGCCTGG TCACCAGGGA 60  
 GGCTGAGTGA GGGGCTGTGA ACAGTTGCCG GAAGCACCCC CTCCCTCCCC GGCCCGTGCA 120  
 GCAGTGTCTG AGCTGTAGTG AAAGTTTCAG GGCCTGCAAA AGAAGAGGCT TGGGCACAGG 180  
 ACTGACCATN GCTCCAGGGG TTTAGGACCC CCAGGNCNGT GAAGGTGGGA GCAGCTCACC 240  
 ACCTTTNACG CAGGCTTTGG TATGTTCTCT NAGGCTTAGT TGATTTTGGG CCCNAAANCA 300  
 AATNCAAAG GTTCTTGGGC CAACCTTTTG TTAANTN 337

(2) INFORMATION FOR SEQ ID NO: 5301:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 326  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06324  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5301:  
 GATCACAGCT CCAGGACCAG TGCAGGCTGG CTGCCCTCTT TTGGCCGCGT CTGGAATAAT 60  
 GGACGCCGCT GGCAGTCCAG ACATCAATTC AAAACTGAAG CTGCAGCAAT GAAGAAGCAG 120  
 TCACATACAG AAAAAAGCTA ATCATGCTCT CTACCAACTA CCATGAGGCT AGNAAGCAAA 180  
 GTCAACAAAC CCCTATTATA CCTTCCACCA AATTCTTTAT CATTGTCTTT CTTAGGAAAC 240  
 AGNCATACTC ATTCATTTGA TTTANTAAGG TTTTATTTT CCAANGTNTG NTGTGGNTGN 300  
 TTNGGNNNNN TTGTGGTGGT TGNGNN 326

(2) INFORMATION FOR SEQ ID NO: 5302:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 174  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single

- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS06325
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5302:

```
GATCTTTNAT TTACCTGTAC AGGAGTGTA ACTTTTNGT GNTTTTATTT TTCAATTGTG 60
AGAACCACTG ATTGGTATGT TCAACAAATT TGTGTATACA AAGAAATGGA TAAATCACTG 120
CTATATANGG GAAACTACCT TAGGAAAGAN TGTTTACTGA ATGTTTATNN NATN 174
```

(2) INFORMATION FOR SEQ ID NO: 5303:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 104
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06326

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5303:

```
GATCAGTGAT ATTTGATGTT AGTGTGTAC TATAGGGTGC CAATAACTCT GCCTATACAA 60
GATGGTGTAC TTAATCAATA AACGTGTATT CTGACTGCCT TAAA 104
```

(2) INFORMATION FOR SEQ ID NO: 5304:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 238
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06327

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5304:

```
GATCCTTCCG TCTCAGCTCC CCAACCCAG TAGCTGGGAC TACAGTTGCA CATCATCATG 60
CCTGGCTAAT TTTTNNATTT TTGTAGAGGT AGGTTTCACT ATGTTGCCCT GGCTGGTCTT 120
GAACCTCTGG GCTCAAGTGA TTCACCTGCC TCGGNCCTC AAAGNGCTGG TGTTTACNGG 180
CATGAGCCAC TGTGTCCGAC CCANACCTAC TANTGTTAAT NGANNTTTTN TTAACNN 238
```

(2) INFORMATION FOR SEQ ID NO: 5305:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 132
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06329

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5305:

```
GATCAACAGA GTGAGACCCC TGTCTATATA TTNNTTAAAT TTAAAAAATA AAAGANTAAA 60
ATTGTGTAGC TCAGTATAGT ATCAAGATTA ATCTGCCTAC TCACATTCTT AACTTTATA 120
NNANTGTAAT AN 132
```



## (2) INFORMATION FOR SEQ ID NO: 5306:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 293
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06330

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5306:

```
GATCCAGCCA TNACTAACCT ATNCCNNTTT TGGGGAAATC TGAGCCTAGC TCAGAAAAAC 60
ATAAAGCACC TTGAAAAAGA CTTGGCAGCT TCCNGATAAA GCGTGCTGTG CTGTGCAGTA 120
GGANCAATC CTATTTATTG TGATGTTGTG GTTTTATTAT CTTAACTCT GNTCCATACA 180
CTTGATATAA TACATGGATA TTTTATGTA CAGAGGTATG TCTCTTAACC AGTTCACCTA 240
TTGTNCTCTG GCAATTTAAA NGANNGTCAG TAAATTNTTT TNCTTGTTAA AGN 293
```

## (2) INFORMATION FOR SEQ ID NO: 5307:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 228
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06331

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5307:

```
GATCAAAACC CAGCAGAGTG CAAGCAGCAG TGAAGCAGGA TGTATGTGGC CTTGAGGATA 60
ACCTNCACTG TAATAGCCTA AACACANCTC TAATTTACTT ACAGCCTTAT GTTTTTGTAT 120
TGNCTTGTA GACTAGGTAA TTTTTTTTTT AAGGNCAGGN GACGGNTATT TTAAAGNCCA 180
ATTTGTTCTA CGTAGCATNT TAACTAGTTT TNNTGCCAGC NATGTTGN 228
```

## (2) INFORMATION FOR SEQ ID NO: 5308:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 113
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06332

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5308:

```
GATCCCTGAA GTTGCCCTGG TCTCTGCACC TTCTAAACCT AGTTCCTAAG AGCTTTCCAT 60
TACATGAGCT GTCTCAAAGC CCTCCAATAA ATTCTCAGTG TAAGCTTCTG AAA 113
```

## (2) INFORMATION FOR SEQ ID NO: 5309:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 154
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06333  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5309:  
 GATCTGTCAC TGTCTCCCGT CACCCNCAGA TGGGGCTGTC TAGTTGCAGG AAAACAAGCT 60  
 CAGGGCTCCC ACTGAGTCTC TGTGATNGTG AGTTGTAGAA TTATTTAANN ATATGTTACA 120  
 ATGTAATANT AGTAGAANTA AAGTGCACAN TAAN 154

(2) INFORMATION FOR SEQ ID NO: 5310:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 214  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06334  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5310:  
 GATCTCTTTC CCTGTCTTGG AGGTGAAAAG TNATATCTAA GGNTNTGTTT GCAGTGACCC 60  
 CTAGTTTGGG GTACACAGAC CAGTGTTCTT NATTGACAGT GTTCAATAAG GCCCCGTCAT 120  
 TCTCGCCAGT NTNTTGTGTT NCTTAATGGG CTCCTCCTTG AANTGTGTGT GTGTTTGTGT 180  
 CAAGAGGAGT TNGTGTTCTT GGTAATAATAA GNTN 214

(2) INFORMATION FOR SEQ ID NO: 5311:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 127  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06335  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5311:  
 GATCTCTNCG ANTNAATTC AATCTAGGGA AAAATGGCAG AGAAGTAAAT GGATGTNCTG 60  
 GTGTCAATAG ATATGAAAGT GTTGTTGGC GACTTGCAAA TCAACAAAGT TTAAAAAATC 120  
 GAATNNN 127

(2) INFORMATION FOR SEQ ID NO: 5312:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 67  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06337  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5312:  
 GATCGAGAAT NACNATNTTT TGTAATGGA AATACCACTA CTAAAGACAG AATGCTATAA 60  
 ATAGAAA 67

## (2) INFORMATION FOR SEQ ID NO: 5313:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 130
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06338

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5313:

GATCTTCTGT ACTTCTGTCT TCCATAGGAC AAATNATAAG TACTACATAC CTCATCTCTT 60  
 GGGTTATNAT TGTAGTCTTG CATTTCATGAT TATNAATTTA AAAATAAATA CCAATTATGG 120  
 AAATTGTAAA 130

## (2) INFORMATION FOR SEQ ID NO: 5314:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 106
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06339

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5314:

GATCTACATN AGGAAAAGTA TAAGCCCCCT CCCTAATGGC CGCTGGGNGG TGAGGGCGGT 60  
 GTGTTGTATG TCTTTGGGTG TTTGTTNNTT NATAAAGCAT ATAATN 106

## (2) INFORMATION FOR SEQ ID NO: 5315:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 195
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06341

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5315:

GATCTNAAAA AGAGAGAAGA AAATAAAAAG TATTATTTAT ATGTCAGTGC CAACTTTGAA 60  
 GGTAACACAG TAGTAGTAAC TTTTGGGAGA AATTCTAAAA ACTACTTTAA AAAGAAGCGT 120  
 GCACATAAAA TAANTATCTT TCTATCCAAG GCTTGTCATT TNATATGCTT TNNTTGTA 180  
 TTTAANATNN NGCTN 195

## (2) INFORMATION FOR SEQ ID NO: 5316:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 136
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06343

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5316:

GATCTAATTA CTTATAGATT CTGTAGTCTN GNGAAGGNGT GGGTGACGTG ATGAGAGGTT 60  
TGAGAAATGG GTGAAATGAA ATGGGGGGAT ATGTAGGTCA AATCANATNA AAGATGATTT 120  
TTTTNATGTG AATAAN 136

(2) INFORMATION FOR SEQ ID NO: 5317:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 180  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06344

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5317:

GATCAGCTTA AGGNTTTAGC GCTGGTGGAT AGACACTCGA GACCAGAAAT CATATTTTTN 60  
CTGAAAGTAG ATGATTTACC TGAGGATAAT CAGGAACGTT TTAATAGCCT TTNCTCTCTA 120  
AGGGAGAAGT GGACAGAAGA AGATATTGCT CCATATATTC AAGATTTGTG TGGAGAGAGN 180

(2) INFORMATION FOR SEQ ID NO: 5318:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 83  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06345

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5318:

GATCGCGGTA TATAGAGATA TGCATTTTAT TTTACTTGTG TAAAAATATC GGACGACGTG 60  
GAATAAAGAG CTCTTTTCTT AAA 83

(2) INFORMATION FOR SEQ ID NO: 5319:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 180  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06346

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5319:

GATCTCCTTA GGTGATGCAC AGTCCAATA CCTGCTAACC ACCGCCGAGA ACGAGCTGGG 60  
AGTGGTGGTA GCCACAGTG AGTCAGGTAT CCAGATGGTT CCCATCAGCT GGTGTGAGAT 120  
GCAGTGCCCT AAGACCCACA CTAAAGAATT CCGGAAAGTA GCCCGNGTAC AACCCGAATN 180

(2) INFORMATION FOR SEQ ID NO: 5320:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 126  
(B) TYPE: nucleic acid

- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS06347
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5320:

```
GATCAGAGAA TCACAAGAGC AGCAAATGTG GTTTCATCAA GTGGGAAGAA AGCAGCAATT 60
TAAATANCT TTTTGGNGA CTGANTTGAG TAATAATAAA NCTTCAGTCT TTCGCTAATN 120
ATANTN 126
```

(2) INFORMATION FOR SEQ ID NO: 5321:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 225
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS06348
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5321:

```
GATCTAGACG CCCCCAAATC CTTGAGATGT GGGTATAGCT CAGGGTAAGC TGCTCTGAGG 60
TAAAGGTCCA TGAACCCCTGC CCCACTCCTG TCAGCCCCTC ATCAGCCTTT TCAGCAGGTT 120
CCAGTGCCTG ACTTGGGATA GGACTGAGTG GTAGGAGGAG GGGGAGTGGA GGGGCATAGC 180
CTTCCCTAA TTCTGCCTTA AATAAACTG CATTGCTGAT TCAA 225
```

(2) INFORMATION FOR SEQ ID NO: 5322:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 341
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS06350
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5322:

```
GATCAGCAAA TTGTTATNTT AAAAAGTTTT CTTGTTTAGG CAATTGTA AGTGGTTTCT 60
AGTTATAAAC TAGCCACTGT TGATTAAGT GAGAAGGTGA AGCAGGGGAG TTCTGAAGAG 120
ATTACCTAGA GCTACTTAAC CCTAAGTTAA GTAAAATTTT CACTTTCATT CTTTTCATTC 180
TCTCATAAAC TGGTTGAAAA AACACTGTAC TACCAACAAA GGTGTCAGTT GCTTGTGCTG 240
CCCTGTCTAT GTTATGCTCT GAATAGGTCT CGGTAAAGAT TATATGGAAA TACTATAAAG 300
NNTACATAAG GTAAATACT AGTCAGANAG GGTTCAGGTT N 341
```

(2) INFORMATION FOR SEQ ID NO: 5323:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 157
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS06351
- (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5323:

GATCTGAAGT NCTTCCATTA TATCTATATC TGTATATGNA CATATATGTG GGTGTGTATA 60  
TATATGNGTG TATGTATATA TATACAATTN CCTGAGAACT CACTNTTTTT TGTGAATTTN 120  
CAATAGTGTT CGCCATGTTT TCCACCAGNA TGTATAN 157

(2) INFORMATION FOR SEQ ID NO: 5324:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 94  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06353

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5324:

GATCAAGTTT TGATGAAGAT GTGAAAACN GTTGGGCAGT ACTACTCAAG CTGAACCCCA 60  
TGCATCAGAG AAATTACACT TTTATATNTC CAAA 94

(2) INFORMATION FOR SEQ ID NO: 5325:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 128  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06354

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5325:

GATCTGCCCT NCTCAGCCTC CCAAAGTGCT GGGATTAGAG GCGTGAGCAC CATGCCTGGC 60  
CAGGTCTTNC TAACTAAAAA ATAATAATAA TAATAATAAA AAANAAAAGA NGATACTTGC 120  
AAAATAAA 128

(2) INFORMATION FOR SEQ ID NO: 5326:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 117  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06355

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5326:

GATCAAGAGT ATTTNCTNTA GCTAGCTTAA AAAGAAAACA TATATTTAAT GTAAAANCAC 60  
ATACATGGCC AAATGCAATA CTGANGAGAC AATCATCCTG TATCTTTNAT GGTTTTN 117

(2) INFORMATION FOR SEQ ID NO: 5327:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 334  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single

(D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06356  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5327:  
 GATCAATGCG CTAGTGCAGG AGCTCGGCTT CTACCGCAAG GCGGCGCCCG ACGCGCAGGT 60  
 GGGGGGGCAG TACGTGTGGG CGCCCGNAAA GCGCCAGAGG AAACCTCGGA CCACGCTGAC 120  
 CTNTAGGTCC GGGGGCGCGG CGGANCTGGG ACCTACCTGC CTGAGTCCTG GAGACAGAAT 180  
 GAAGCGNTCA GCATCCCGGG AATACTTCTC TTGCTGAGAG CCGATGCCCC TCCCCGTGGC 240  
 CAGCAGGGAT GGGGTTGGGG AGGTTCTTCC AACCNAGCTT TTTTCCTTC CNCAAGNTCC 300  
 ACTAAAATTT CCCTTCTGCN TTAAAAAAA AANN 334

(2) INFORMATION FOR SEQ ID NO: 5328:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 330  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06357  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5328:  
 GATCAGCCAA ATTGGGCGGC CACCCCGNC TCCACCACTT TCCACCATCA GCTGCCAAAC 60  
 TGGTCCCTCT GTCTCCCTGG GGCCTTGGGT TCTGTTTGGG GGTCATGACC TTCCTAGTTT 120  
 CCTGACGCAG GGGNATACAG GGGAGAGGGT TGTCTTCCC CCCAGCAAAT GCAATAATGC 180  
 CCTCACCCCT CCTGAGAGGA GGGCCCTCCC TGTGGAGCCT GTNACCTTCG NATTTGACAC 240  
 GAGTCTGCTG TGAACCNCGC ANTCTGCTTC NCACCTNCNA TCTNTCCTNC CAGGGCCATN 300  
 CCTGGGCCAG AGCAGGAGGG GAGGGAGGTN 330

(2) INFORMATION FOR SEQ ID NO: 5329:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 175  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06358  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5329:  
 GATCAAAAAT NTGTGGGTTT ATTTCTGGAG TCTCTGTTCT ATTGGTCTAT ATGTCCGTCT 60  
 TCATGCTGGT ACTATGCTGT TTTATTTACT GTAGCTTTGT AATATATTTN GAAATCAGAA 120  
 GGTGGGATGC CTTCAGCTTT GTNCTTTTTN CTCAAATAA AAAATNCTTT TGAA 175

(2) INFORMATION FOR SEQ ID NO: 5330:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 123  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06359

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5330:  
 GATCAAATCA GAGTAATTTG GATATTCATC ACCTCGAATA TTTATCTTTC CTTTGTGTTG 60  
 GGAACATTAT AATTTTCCTC TGCTAGCTAT TTAGAATAT ATAATAAATN ATNGTCCCCT 120  
 AAA 123

(2) INFORMATION FOR SEQ ID NO: 5331:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 161  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06360  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5331:  
 GATCAAAGCC AGCCACCCCC ACCCCAACAC ACTCGGTGTC CTTTCATCC TGGGCCTNTG 60  
 TGAATCCCAG CCTNGGCCAT ANCCTCAACC TCAGTGGGCT GGAAATAACA GTGGGGNCCC 120  
 TGTAGCAGTG GCAGAATAAA CTTAGATGTT NTNACAGGAA A 161

(2) INFORMATION FOR SEQ ID NO: 5332:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 139  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06361  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5332:  
 GATCNTCTCA GNGANGNCGC TTNGGTCGCA GTTTTAGGGG GTTCTCGGTT TGCAGGAACC 60  
 CTGGGTGCAG GTTCGCAGCC CTGTCAACCA GCTCCGAGCC GGCAGCGAAA CCTGAAGTGG 120  
 ACCCTGTGGA AAATNAAGN 139

(2) INFORMATION FOR SEQ ID NO: 5333:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 145  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06362  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5333:  
 GATCTNCTCA CCCTCGGTGA NAACAGTGTC AGCCATGCAA GCAGGACAGA ATGGTGACTG 60  
 GGTGCCCTTG GTGAGCTGTG TATTTCTAG NAGGTAGAAA ACTGTGGGAA ACTGTGGCTA 120  
 ATAAAACTA AGTGTGAGCG TCAAA 145

(2) INFORMATION FOR SEQ ID NO: 5334:

(i) SEQUENCE CHARACTERISTICS:



(A) LENGTH: 351  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06363  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5334:

```

GATCTTAAAT NACCTATTTT TAATGTGATT CATAACGTT TTTNACTTAG TGGTTTAAAA 60
TATGAAAGTA TATAAACACA TTACCAAACA CTTTGGGGTA GGAGAAGTAC GCTTAGCATG 120
TCTGTGTCAT ACCTAATTTT TTTAAAGCTA TAATGAAGT ATACACATCA ATTTANNNGC 180
NGGTTTTTATT CTTTCAATGA AACTGTATC AAAATTTTTT NATGANGTAA TGTTAGTCTT 240
TGTGGTCAAT AGTTATTGGT AATACTACTA GTAATATGGG TNCATGGCTA TAAGATGCTT 300
TAGCTTAGTG GTCAGTTGTT ATNCTAAGGG GTTTNAATCN AATTNGGTNG N 351

```

(2) INFORMATION FOR SEQ ID NO: 5335:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 348  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06364  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5335:

```

GATCACAAGT AGAGAACTTG TTTCTTTTCA CCCCTCTTGC TCCTCCCCGG AGTTATGAAA 60
AATTTCAAAC CTGCCAAAAG TTTGAAGTTT ACAACAAATA CCTCCAACG TTTGGNTTGC 120
CTCCCTCCCC CTTCTCTCCC TTNCTCCCTC TGATTTCTTA CAGAACCACG CTTTCATGAC 180
CATGCCCGGG AACTTCACGC TGGCGCGGTG AGGTCCTGCG CCTCCGNTTN CNGCACACAC 240
GTGCTTCTNA ATAGCTGCAG GCTATTTTCA GAGAGGAATT TGCTCACGTT AACATNGCTG 300
TTCCCAAATG CCAGGCTGNT TTTAAGTGGT TTCCTAATTT ATAAAGGN 348

```

(2) INFORMATION FOR SEQ ID NO: 5336:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 220  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06365  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5336:

```

GATCTCAATA GTCAGTTACT GATGCTCCTG AACCTATGT GTCCATTNT GCACACACGT 60
ATACCTCGGC ATGGCCGCGT CACTGCTCTG ATTATGTGCC CTGGCCAGGG ACCAGCGCCC 120
TTGCACANGG GCATGGTTGA NTCTGAAACC CTCCTTCTGT GGCAACTNGT ACTGAAATC 180
TGGTGCTCAN TAAAGANGCC CATGGCTGGT GGCATGCAAA 220

```

(2) INFORMATION FOR SEQ ID NO: 5337:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 227  
 (B) TYPE: nucleic acid

(C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06366  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5337:  
 GATCCCAGCC ATAAAGTACC TGGGATGAAA GAAGTTTTTT CCAGTTTGTC AGTGTCTGTN 60  
 AGAATTACTT ATTTCTTTNC TATATTCTCA TAGCACGTGT NTGATTGGTT CATGCATGTA 120  
 GGTCTCTTAA CAATGATGGT GGGCCTCTGG AGTCCAGGGG CTGGCCGGTT GTTCTATGCA 180  
 GAGAAAGCAG TCAATAAATN TTTGCCAGAC TGGGTGCAGA ATTTAAA 227

(2) INFORMATION FOR SEQ ID NO: 5338:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 91  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06367  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5338:  
 GATCTTNACT CTTGTTTCCT TTGTCCTTTT NTTCAGACAG AGTTGTACCT GCAGCAGACA 60  
 ACTCTGAATT AAAGCATGAA AACACAGCAA A 91

(2) INFORMATION FOR SEQ ID NO: 5339:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 269  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06369  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5339:  
 GATCTCTCCC CACACAGAGG CCAGCAGACC TCTTCTGAG GACTTCTGTT TAAAGGAGGA 60  
 CGAGGAGGAG GTTGGTGACA GTCAGGCCTG GGAGGAGCCC ACAAAGTGA GCACAGAGAC 120  
 ATGGAACCTA GCTACTTCCT GGNAGGTGGG GCGGGNACTA CGGAGAAGGT GCAGCCAGGC 180  
 TGTGGCAAAG GGCCCCANTC ACAGCCTTGG CTGGGAAGGN GGGNNCGACA GCTGANGGTC 240  
 GACTAAAACA AAGTCTGTTT TCATGNAAA 269

(2) INFORMATION FOR SEQ ID NO: 5340:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 67  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06370  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5340:

GATCTCTTGT NATGGGGCCA ATAAGTCAAT TGAATTCATG GGCCAAACAG TTCCCATTCT 60  
CTTCAAA 67

(2) INFORMATION FOR SEQ ID NO: 5341:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 313
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06371

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5341:

GATCCTNATN ACGNAGCTGA TGCCTGCCTT GGTNCCTACC ACTCTGGTGT AGACAGAGGA 60  
CTTTNTCCAA GTGTCACACT AAACATGCCG GGGCTTCGAT GTGCCTGGAG GATTTCCTCA 120  
CAGGGACCCA CGCACCTCCC TGTATCTGCG CAGTTGCTCG TGTGGCTGGA AGCGCTGTCTG 180  
ATAAGCTTCN NGGCGCTGGN TTGCCAGTTC TTCAGCTCTA GGACTTGTAG CTTTAAGCAA 240  
ACGGTGTGGC ATGGGNTTGA NGTNTGGCCA CCTGGCAGNG NTGTGCAGGG TCTTGCCTTA 300  
NNAAAGCTGG CTN 313

(2) INFORMATION FOR SEQ ID NO: 5342:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 87
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06372

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5342:

GATCAAAAAA TATATGAAAG TTCCTTGTAG ATACATATCT ATAGATATAT ATGTNTATGT 60  
ATATAAAGAT AGATATATAC ATTGAAA 87

(2) INFORMATION FOR SEQ ID NO: 5343:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 125
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06373

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5343:

GATCTTTTTA TATTCTTCTA CCACACCTGG AAACAGACCA ATAGACATNT TGGGGTTTTG 60  
TAATGGGAAT NTNTATAAAG CATTACTCTT TTTNAATAAA TTGTTTTTNA ATTTAAAAAA 120  
AGAAA 125

(2) INFORMATION FOR SEQ ID NO: 5344:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 51
- (B) TYPE: nucleic acid

(C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06374  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5344:  
 GATCAGGTGG AAATGTTTAA GCTAAATAAA TCTAGGGGTT NTTTNAACAA A 51

(2) INFORMATION FOR SEQ ID NO: 5345:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 273  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06376  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5345:  
 GATCTGAAGA AACACGCAG TGTNCACGCA AGCCACTCAG ACAAGCCCAG GGGTTCCTTG 60  
 GCCTTCTCAG TCAGCTAACT TTCCTGAGTT CTCCTTTGAC TTCACTAGGG AACAGTTGAA 120  
 CAAGAGATTT TTCAATCAAG NCTTTGGAAC TACGAAGATG GAAGAGATTT GAAGAGGGAT 180  
 ATNGAATGAG TAAATTAAGC AACTTTTTAN TATCCTATTT CTNTAAATNT CCAGATTTTA 240  
 AAACATTCTT GTATTATANT ATCTAAAAAC AAA 273

(2) INFORMATION FOR SEQ ID NO: 5346:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 76  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06377  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5346:  
 GATCTAGATA TTTTCTCTT TTTCTGAAGN TACTTTCTTA AAAAATAAAT AAAATGTTTA 60  
 TAGCATTCCT NGTAAA 76

(2) INFORMATION FOR SEQ ID NO: 5347:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 295  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06378  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5347:  
 GATCAATTCT CCTTTGCGAG GNGACCACCA ANGGACTGCA GAGCTGNCCG GGCATTTCGTG 60  
 CGTGTTTCATG ACCGAGAACT TTNCACACAG AGAGGACTTC TGTCCTGACG AAGGAGCGCA 120  
 GAGCTGGCCG NGCATTCGTG CGTGTTTCATG ACCGNGAACT TTTACAGCT AGGACTNCTG 180

TCCTGACGTC TTTATNGGTA TAATAGTTGC GTTTAAGNCT GCAGACTTCA AGTTTATATT 240  
TCTCTTTATT GTAACACTCT GTGCANNNNTT TGATTNCTAG TTTATTNCA TTGTN 295

## (2) INFORMATION FOR SEQ ID NO: 5348:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 416
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06379

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5348:

GATCGACCTG AGCACAGTGG ACCTGAAGAA GCTCCGAGTT AAAGAGCTGA AGAAGATTCT 60  
GGATGACTNN NNGGAGACAT GCAAAGGCTG TGCAGAAAAG TCTGACTACA TCCGGAAGAT 120  
AAATNAACTG ATNCCTAAAT ATGNCCCCAA GGCAGCCAGT GCACGGACCG ATTTGTAGTC 180  
TGCTCAATCT CTGTTGCACC TGAGGGGGTA AAAACAGTTC AACTGCTTAC TCCCAAANCA 240  
GCCTNTTGT AATTTATTTT TTAAGNNGGC TCCTGACAAT ACTGTATCAG ATGTGAAGCC 300  
TGGAGCTTTC CTGGATGATG CTGGNCCTGC AGTACCCCCA TGAGGGGATT NCCNTTCCTT 360  
CTGTTTGCTG GTGTACTNCT GGGGGNGNGA AGTGTGTCTG GGGNNTTTTT TNNTGN 416

## (2) INFORMATION FOR SEQ ID NO: 5349:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 88
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06380

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5349:

GATCTGAAGA AGTGGTTAAG ACCAAGAGTT TATGTACCTT TTAAACAAA GATTAATAAA 60  
TTTTTGAAGA AGTGATGAGA CAAAGAAA 88

## (2) INFORMATION FOR SEQ ID NO: 5350:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 259
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06381

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5350:

GATCAGAACA TGAACTTTTT TTTTAAAAGA AGATTTGAGC ATTTTCCTGT AATCACATCA 60  
AAATNATGTT TTCTGTGTAA AGCGAGATAC ATATTNCTNA TAATGCAGCA TTGTGAGAAG 120  
TCAGTTCGGC CCACTGCACC ANCACTGTCG TATCCTTGTT AAAATGGTGT GTACCTTACA 180  
ANTTATAATT TATGTGCCAG GTTCGTTTTG TNCTTAATTT GCTATTATTG TGCTGTGTNT 240  
ANCCCCTGTN NNCTNGGTN 259

## (2) INFORMATION FOR SEQ ID NO: 5351:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 65  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06382  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5351:  
 GATCTTATAA AGTACTTGTG TGGAGCTTTG ATTCCACAGA ATAAAAGATA TTTGTGTGT 60  
 AGAAA 65

(2) INFORMATION FOR SEQ ID NO: 5352:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 226  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06383  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5352:  
 GATCTCAGCC CAGGACAAGG TGGGAATNAG TCAAGCCTGG ACTCTGGCCC CCCTGCCTGG 60  
 CCAGTAAGAA GGGCAAAGTC CAAGGGGAGG GATGAGGNAG GGGCCAGATG GGGTCCTGGA 120  
 GGAAGAATTN CCTGGCAAAA GCCATTGGAG CTTGTNTGTG TGTCTTTGGT GATGACATNT 180  
 GTTGTGAGGG TAGATGGGAA CCAATNTTAA AGGATGAAAT GTGAAA 226

(2) INFORMATION FOR SEQ ID NO: 5353:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 305  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06384  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5353:  
 GATCCTTTTG TAAGGNCCTT CCTGAAGAAG AAAGGTGGCA AATACAGTNT TCAGTTCAAG 60  
 TTGCCCCGACG TGTATGGTGT ATTCCAGTTT AAAGTGGATT ACAACCGGCT AGGCTACACA 120  
 CACCTGTACT CTTCCACTCA GGTATCCGTG CGGCCACTCC AGCACACGCA GTATGAGCGC 180  
 TTCATCCCCT CGGNCTACCC CTACTACGGC AGCGGCTTTC TNCATGATGC TGGGGGCTCT 240  
 TTCATCTNTC AGCATCGGGC NGGCTTTGCA CATGNAGGN GAATGNTGGA NGTCCGANTT 300  
 TTNGN 305

(2) INFORMATION FOR SEQ ID NO: 5354:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 356  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06385

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5354:

```
GATCTACATT CTTCAAAAAA AAAAATTGGC TTAAGTGTTC CATCTTNAAG TAGCATTTTG 60
CTGCCATTTG TATTGGGCTG AAGAANTCAC TATTGTGTAT ATACTCAAGT CTTTNNATTT 120
TCCCNCTTTT CATAAATNCT CTTGGNCATN ATTGGGCTTG CAGAGTTCCC TTATNCTGGG 180
GATTACAATG CTTTTATCGT TTCAGGCTTC ATTTNNGCTT CAAANCAAGC TGGGCACACT 240
GTTAAANCAT GATTTTGCAG ANCCTTTGGT TTTGGACAGT TTCATTTTTT NGGATTGTTG 300
ATAGATTNCA TAGGAGTATG GAGTATGCTG TAAATAAAAA TNCANGCTAG TGCTTN 356
```

(2) INFORMATION FOR SEQ ID NO: 5355:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 74  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06386

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5355:

```
GATCTTTAAC AGCTCCTTTA CTTGCNCTTT GTAAAAAATA ATAAATTAG NTTGAATTAT 60
TCTACCTTTG TAAA 74
```

(2) INFORMATION FOR SEQ ID NO: 5356:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 201  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06387

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5356:

```
GATCCTGCTG GCCGAGCTCG AGCAGCTCAA GGGCCAAGGC AAGTCGCGCC TGGAGCAGCA 60
GAATAAGNTC CTTAAGTTAA AATAAATTAA TTTTTCAAA AAACATAAAT CTGGAAGTGT 120
TGTTTCTATA TTTNATAACA AATACAGTAT ATNTNATNTA TAAGCCATGG TCTACTGATA 180
CTGTATGAGG ACTTNCCTGA N 201
```

(2) INFORMATION FOR SEQ ID NO: 5357:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 409  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06388

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5357:

```
GATCAGAACG TTAACATATG AACCTGCAGA AATCTGGTAA GACTTAAATT CAGTGTGAGG 60
AATAACTCTA GTTCTCTCCT ATGAGCATTT CCTAAAAGCC ATCTGATTG GCATTCTTAC 120
```

TGGAGCTGCA GACAGAAATC TACAAAGNCN NAAGTAAACA AAATTAAGTT ATTATTCCAC 180  
 TGTTAGGAAT GGAAATAAAC TTGTGAAGTC TGTTTATTTT GAAGTATTGG TGAAGTAGGC 240  
 TTGCTAATNG GGAGCTGCAG CAGTTTGTGT TTACTCCAGT TCATCAGCTT AGGTCATTG 300  
 AAAGNTATAA GAGCTTAAGG CAAGAAAGGA ATACCATGGG ATTCTATTTN AGGGCCACCA 360  
 GNCCATTCTT GGNAAGCAGC TCCNGTTTGG TTTTCCAGCT GTCAAACN 409

(2) INFORMATION FOR SEQ ID NO: 5358:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 175
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06389

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5358:

GATCTGCCCCG TNCGGCCTC CCAAAGTGCT GGGATTACCG GCATGAGTCA CTGCGCCTGG 60  
 CCGACAAAGG CTTTGATATC AGAATGAACT GTCAAGGGAG GTGCTGGAGA GGGATTAACC 120  
 TGTGCAGAGN CCAANNGGTA TGGAAANAAA ANTGGGATTG GGACTAGGTG NTCTN 175

(2) INFORMATION FOR SEQ ID NO: 5359:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 104
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06390

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5359:

GATCAGGCTC AGGCGGCCCC ACTCACCCAC AGCATCCGCC GCCACCCCTT CGGGTGTGAG 60  
 CGCTCAATAA AAACAACACA CTATAAAGTG TTTTAAATC CAAA 104

(2) INFORMATION FOR SEQ ID NO: 5360:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 106
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06392

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5360:

GATCTTTCCTC AAGAGAAGGG GAAGCACTCG TGTGCAACAG ACAAGTGACT GTATCTGTGT 60  
 AGACTATTTG CTTATTTAAT AAAGACGATT TGTCAGTTAT TTAA 106

(2) INFORMATION FOR SEQ ID NO: 5361:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 382
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single



(D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06393  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5361:  
 GATCTACGCT GCCTTCAAGG AAGTGCTGGG TTCGGGCATG CACCACCACC TCCAGAACAA 60  
 TGAGCTACTC CGTGACATCT TTGGCCTGGG CCCTGTGCTG TTGCTGGATG CCACTGCCCT 120  
 GAAGGCCTGC AAGGTTCCAC GCTTTGAGAA GCACCTGTAC AATGCTGCTG CCTTCAAAGC 180  
 CCGGACCAAG GCTCGAAGCC GTGTGCGGGA CAAGCGGGCA GACATCCTGT GAAGCAGGAC 240  
 CTGCTGAAGA GGAGACTTTC TATGCCCTTG GTCCGTATTT TTAACAGAAG ACAGTGCAAC 300  
 AACTGGTCTT CACCAGTATT TGTCACCTTA TTTTTTTTAA TGTCAAAACC AAAACAGAC 360  
 ATGGGGTTGG GTAGCTGGGG GN 382

(2) INFORMATION FOR SEQ ID NO: 5362:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 354  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06394  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5362:  
 GATCCNATCA TTCCTTAAAC ATANTACCT TNGTCTTGA GTAGAATACT AAGTTAGAGT 60  
 TAGTGATTCT CTAGTTTAGG AGAGGAGCTC AAAACTATAA TCTNTAACAA ATTGAAAAAT 120  
 GAAATAGGGT GTTTTCCCTT TTTGTGCACA CCTACATNAC CTTAAGAAAT NNCCTTCCAT 180  
 AGACAGCTGC CTCAAAGGGA AATCCTCTTT AAACCGTAGT TGGCGCAGAG GTCAGTCCTA 240  
 GTCGGAGCTT AGGAGGTGCG GNGACGCTCA CATCGTCTGG ACTTGAGTCG NCACTGGATT 300  
 GTGGCANCAN NTTTNGCTCA TGNGTCAAAA ATTTNGGCAA TTTCTTTTGG ATTN 354

(2) INFORMATION FOR SEQ ID NO: 5363:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 79  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06395  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5363:  
 GATCCAGGGC CTCCCCGCCT TCCTTCTTCC TTTTATATA CAATTTGTTA TTGTCAAATA 60  
 AAAGTAGGAA ATATTCAA 79

(2) INFORMATION FOR SEQ ID NO: 5364:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 238  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06396

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5364:

GATCTTTGTG GCCAAGGAGC TGCTATAGCC TGGGGTGGGG TCATGCCCTC CTCTCCCATT 60  
 GTCCCTCTNC CCCATCCTCC AGCAGGGAAA ATGCAGCAGG GATGCCCTGG AGGTGGCTGA 120  
 GCCCCTGTCT AGAGAGGGAG GCAAGCCCTG TTGACACAGG TCTTTCCTAA GGCTGCAAGG 180  
 TTTAGGCTGG TGGCCCAGGA CCATCATCCT ACTGTAATAA AGATGATTGT NAAATAAA 238

## (2) INFORMATION FOR SEQ ID NO: 5365:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 321  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06397

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5365:

GATCCTTGTC CGTGGCAACC TTAAACGTGT GCTGCAGTGC TGATGTATTT ATAGGCTTAG 60  
 CATGTCTGCT TTATTAGTTA TCCTGGAAAG AATGCTATTC AGTTTTTTTT TTAATGTCTA 120  
 CATCANGGAA TGAATGCTAA ATNAGCCCAT TTAGCAGCCT GAAATCAAAT NCTGCATTTN 180  
 TTTTTTNAAA CTCTTGGTAG CAAAAGAAAA AGCTGATTAA ANTATGATTG TGTTACAATG 240  
 ACTAAAGGGT TANCTNCTCA TTAATTCTAA ATNCTTCAAA ATGNACAAGC ATCATAATAA 300  
 AGGCTTTTGA TGNGAANTAA A 321

## (2) INFORMATION FOR SEQ ID NO: 5366:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 409  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06398

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5366:

GATCTACAAG TCAGTGCCTT GTATGCTCTC CAGGTGCACT GCTATAACAG CAACTTCCCA 60  
 AAAGGCATGT TACTTCGCTT TTTTGTGCAC TTCTATGACA TGGAAATTAT TGAAGAAGAA 120  
 GCTTCTTGG CTTGGAAAGA AGATATAACC CAAGAGTTTC CGGGAAAAGG CAAGGCTTTG 180  
 TTCCAGGTGA ATCAGTGGGC TAACCTNGTT AGAACTGCN GAAGAAGAAG AATCAGAGGA 240  
 NGAAGCTGAC TAAAGAACCA GCCAAAGCCT TAAATTGTGC AAAACATACT GTTTGCTATG 300  
 ATGTAAGTGC ATTTGACCTA ACCACTNGCG NAAANTNATT CCGNTGTAAT GTNTTCACAA 360  
 TATTTNAAAG CAGANGCACG TCAGTTTNGG NTTTCCTTCT GCANAAAGN 409

## (2) INFORMATION FOR SEQ ID NO: 5367:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 178  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06399

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5367:

GATCCTCAGT ATAGCCGGTG AACCTGATA CCAGGAGCCT GGGCCTCCCT GAACCCCTGG 60  
CTTCCAGCCA TCTNATCGCC AGCNTCCTCC TGGACCTNTT GGCCCCCAGC CCCTTCCNA 120  
CACAGCCNA GAAGNGTCCC AGAGCTGACC NCACTCCAGG ACCTAGGNCC AAGCCTTN 178

(2) INFORMATION FOR SEQ ID NO: 5368:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 75  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06400

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5368:

GATCATTGTA ATATATTTAN TTGTATATNA AGCATGACTA CTTTAAGTNT TAAATAAACT 60  
GCAATAATCC TTAAA 75

(2) INFORMATION FOR SEQ ID NO: 5369:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 354  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06401

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5369:

GATCAGTGNC TGGCACCAGA CACTTCTGGG GATGGTACAG GGTGTGACAA CATGACCTGC 60  
ATCATCATTT GCTTCAAGCC CCGAAACACA GCAGAGCTCC AGCCAGAGAG TGGCAAGCGA 120  
AAACTAGAGG AGGTGCTCTC TACTGAGGGG GCTGAAGAAA ATGGCAACAG CGACAAGAAG 180  
AAGAAGGCCA AGCGAGACTA GCAGTCATCC AGACCCCTGC CCACCTAGAC TGTTTTCTGA 240  
GCCCTCCGGA CCTGAGACTG AGTTTTGGTC TTTTTCCTTT AGCCTTAGCA GTGGGTATGA 300  
GGTGTGCAGG GGGAGCTGGG TGGCTTCACT CCGGCCATTC CAAAGAGGGG TCTN 354

(2) INFORMATION FOR SEQ ID NO: 5370:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 93  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06402

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5370:

GATCACTGGA ATGTGGGGAT TCTGAAACAG AAATGAAACT GTCCTTTTGA CAACTCTCTT 60  
ATATAATAAA GTATCACCGG CTTGTGTATG AAA 93

(2) INFORMATION FOR SEQ ID NO: 5371:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 80  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06403  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5371:  
 GATCATGCAT TATCTTTATA ATTCAAAAGA ATTTATATAT ATGTAAAGGA GGAGAAAATA 60  
 AAAAAAATTA TAATCTTAAA 80

(2) INFORMATION FOR SEQ ID NO: 5372:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 292  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06404  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5372:  
 GATCATNTTG ATAATGCTCG GAATATTTTN AAATGTCCAT TCCGCTGTGT TGATTGAGGA 60  
 CGTTCCCTTC ACGGAGAAAG ATTTTAAGAA TGGCCCCCAG AACATATACA ACCTTTACGA 120  
 GCAAGTCAGC TACAACGTGT TCATCGCTGC AGGCCTTTAC CTCCTCCTCG GAGGCTTCTN 180  
 TTTCTGNCAA GTTCGGCTCA NTAAGNGCAA GGANTACATG GTGCGCTAGG GCCCCGNGN 240  
 GTTTCCCCGN TCCAGCCNCT TCTCTATTTA ANGACTGCNN GCACCGTGTC AN 292

(2) INFORMATION FOR SEQ ID NO: 5373:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 194  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06405  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5373:  
 GATCCTNCTG GCCGAGCTCG AGCAGCTCAA GGGCCAAGGC AAGTCGNGCC TGGGGGACCT 60  
 CTACGAGGAG NAGATGCGGG ACTGCGCCGG NAGGTGGACC AGCTAACCAA CGACAAAGCC 120  
 CGCNTCGAGG TGGAGCGCGA CAACCTGGCC GAGGACATCA TGCGNCTCCG GGAGAAATTN 180  
 CAGGNNGGAG ATTN 194

(2) INFORMATION FOR SEQ ID NO: 5374:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 72  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06407  
 (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5374:

GATCCTGGAT TCACTCACTC ACTCATTCCT TCACTCATCC AGCCACCTAA AACATTTAC 60  
TGACCATGTA AA 72

(2) INFORMATION FOR SEQ ID NO: 5375:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 219  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06408

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5375:

GATCACGCAC GAAGTGACG AACTGACCCA GATTATCGCC GACGTGTCCC AGGACCCAC 60  
GTTGCCGCGG ACCGAGGACC ACCCGTGCCA AAAGTGC GGC CACAAGGAGG CTGTGTTCTT 120  
CCAGTNACAC AGTGCGCGGG NCGANGACGN CATGCGCCTT TACTACGTGT GNACAGCCCC 180  
ACANTGN GGC CACCGCTGGA CCGAGTGNCC TNCTNTGTN 219

(2) INFORMATION FOR SEQ ID NO: 5376:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 65  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06409

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5376:

GATCCAACAA GAACATTTCC AAAAGTATCT AGGTGTTCTC AAATAAAAAG CTTTCTTTGC 60  
ACAAA 65

(2) INFORMATION FOR SEQ ID NO: 5377:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 97  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06410

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5377:

GATCTGCTAA TGCTTTTTAG GAGTCTGCCT GGAACTTTG ACATGGTTCTN TGTTTTTACT 60  
CAAAATCCAA TAAACAAGG TAGTTTGGCT GTGCAAA 97

(2) INFORMATION FOR SEQ ID NO: 5378:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 206  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single

(D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06411  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5378:  
 GATCCCAGAG AGCANCTTCA GTGACAAACA TATCCTTTCA AGACAGAAAG AGACAGGAGA 60  
 CATGAGTCTT TGCCGGAGGA AAAGCAGCTC AAGAACACAT GTGCANTCAC TGGTGTCAACC 120  
 CTGGAATAGG CAAGGNATAA CTCTTCTAAC ACAAATAAG TGTTTTATGT TTGGAATAAA 180  
 GTCANCCCTG TTTCTACTGT TTAA 206

(2) INFORMATION FOR SEQ ID NO: 5379:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 84  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06412  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5379:  
 GATCACTTAA ATGATTTTNT GGTGATTCGT GCCATTGCTT TTTTATTAA AAGAAAATTT 60  
 TGTAATTAAA TGCCTTTTTC TAA 84

(2) INFORMATION FOR SEQ ID NO: 5380:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 127  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06413  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5380:  
 GATCACACCA GAGTACATGT CTCTGCCTCT NTTTTTCAGTG TGGCTTTGGA CAGGAATATA 60  
 TGAATAANTC ACTGCCATAC AGGTTTTCCA ATACACAAGT GCTAGAAAAT ACACACAATT 120  
 CCCCCAA 127

(2) INFORMATION FOR SEQ ID NO: 5381:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 229  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06414  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5381:  
 GATCAAAAAAT GCAACTGAGA AAATNATGGC TCTTGTTGCT GAGCTGTCCA TGAAACAAGC 60  
 CCTAACCATT GAACTCCAAA AGGAAGTCAG GGAGAAAGAA GACTTCATCT TCACTTGCAA 120  
 TTCCAGGATA GAAAAAGGTC TGCCACTCAA TAAGGAAATT GAGAAAGANT GGTGAAAGT 180

CCTTCGAGAT GAAGAAATGC ACGCCTTGGC CATCGCTGAA AAGTCTCAN

229

## (2) INFORMATION FOR SEQ ID NO: 5382:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 71
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06415

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5382:

GATCCCTAAC TGTTCCCTTA TCTGTTTTCT ACCTCCTCCT TTGTTTAATA AAGGCTGAAG 60  
 CTTTTTGTA A 71

## (2) INFORMATION FOR SEQ ID NO: 5383:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 235
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06416

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5383:

GATCACTTAC AAATTTTTTG AATAACACAA AATCTCATTC TACCTGCAGT TTAATTGGAA 60  
 AGATGTGTGT GTGAGAGTAT GTATGTGTGT GTGTGTGTGT GTGTGTGTGC GCGTGCACGC 120  
 ACGTCTTGAG CAGTCAGCAT TGCACCTNCT NTGGAGAAGG GTATTCCTTT ATNAAAATCT 180  
 TCCTCATNNN NGNTTTGCTT TCAGTTGGTT TTCAATTTNC TCACTGGCCA GAGAN 235

## (2) INFORMATION FOR SEQ ID NO: 5384:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 236
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06417

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5384:

GATCTTCCCT CTTCTGAACA GCAACTCCCC CCAACTCATA CACTGCCGTT TTCAGGGTAA 60  
 GCGGCCTTCA CCCCTAAGTG AAAATGTTAG TGAATAAAG GAAGGAGCCA TTCTTGGAAC 120  
 TGGACGACTT CTGAAAAC TGAGGACGAGC ATGGGAGCAA GGCCAGGACC ATGACAAGGA 180  
 AAATCAGCAC TTTCCCTTGG TGGAGAGCTA GGCCCTGCAT GGCCCCAGCA ATGCAN 236

## (2) INFORMATION FOR SEQ ID NO: 5385:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 135
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06418

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5385:

GATCCAGTAC TTGGCAGCCA TAGTTTAGAC AATATTGTTT AGTGCTGTGT TGCTNNCATG 60  
 TTAACAACAA AACCTTTTAG AGGNCCCACA AATCATNGGT ATNGGACACA GGTCCGAGGN 120  
 ATTCCAGAGC ATCAN 135

## (2) INFORMATION FOR SEQ ID NO: 5386:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 261  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06419

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5386:

GATCAGCTCG CACAGAGGTT GTCTGCAAGC AGTGTGAAGC TCATCTAGGT CACGTGTTTC 60  
 CTGATGGACC TGGGCCCAAT GGTCAGAGGT TTTGCATGAA CAGTGTGGCT TTGAAGTTCA 120  
 ANTCAAGGGA AACTGACCA TCTTCAAGAG TCCCGTTCCC TTGCCACCCC TTCACGTGCA 180  
 CCCTCAATTT CCACAATTCA CTTGAATGAC TTGTNTTATT NGCAATAAAA CTGGGCTGAA 240  
 TTTGCTGCTG TCTCCAAANA N 261

## (2) INFORMATION FOR SEQ ID NO: 5387:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 300  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06420

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5387:

GATCATAGAC ATGATTATAT GTGAGTATCA TTAATCATTA GTTTATAGCA NTTNCTCTTT 60  
 ATTCCAATAT TATAATAATC CNCACTCTAC AATCATAACC TAGGAAAAAC CAGGCCATAC 120  
 AGAGATAGGA GCCGAGGGGN CATAGTGCGA AGTGGCCAGA AGACAAGAGT GTGAGCCTTC 180  
 TCTTATGCCT GGACAGGGCC ACCAGAGGGC TTGGTCTAGC AGTAACACCA GTGTCTGGGA 240  
 AGATGCCTGT TGCAAAGTGG ACCATGGTCT AGCGGGGGGC ATCAGTGTCA NGGTANNGAN 300

## (2) INFORMATION FOR SEQ ID NO: 5388:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 299  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06421

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5388:



GATCAACAGT GGCAATGGAG CTGTGGAGGA CAGAAAGCCA AGTGGACTCA ACGGAGAGGC 60  
 CAGCAAGTCT CAGGAAATGG TGCATTTGGT GAACAAGGAG TCGTCAGAAA CTCCAGACCA 120  
 GTTTATGNCA GCTGATGAGA CAAGGAACCT GCAGAATGTG GACATGAAGA TTGGGGTGTA 180  
 ACACCTACAC CATTATCTTG GAAAGAAACA ACCGTTGGAA ACATAACCAT TACAGGGAGC 240  
 TGGGACACTT AACAGATGCA ATGTGCTACT GATTGTTTCA TTGCGGAATC TTTTGTGAN 299

(2) INFORMATION FOR SEQ ID NO: 5389:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 134
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06422

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5389:

GATCCACCTG CCTCGGCCCTC CCAAGGTGCT GGGATTGCAG GTGTGAGCCA CTGTGCTCGG 60  
 CCTTATTTAT ATTTTATATA TTGTTGATAT GGTGAATTT ATGTATGCCA TTAAATTATT 120  
 TGTTTCTATT TAAA 134

(2) INFORMATION FOR SEQ ID NO: 5390:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 303
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06423

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5390:

GATCAACGTC CTCCATGAGC ATGGNATAGT CCACCGTGAC ATTAAAGGTG CCAATATCTT 60  
 CCTTACCTCA TCTGGTTTAA TCAAAGTGGG AGATTTTGGA TGTTTCAGTAA AGCTCAAAAA 120  
 CAATGCCCCAG ACCATGCCTG GTGAAGTGAA CAGCACCTG GGGACAGCAG CATACTGGC 180  
 ACCTGAAGTC ATCACTCGTG CCAANGGAGA GGGCCATGGG CGTGCGGCCG ACATCTGGAG 240  
 TCTNTGGGTG TGTTGTCATA GAGATNGTGA CTTGGCANGA GGCCTTGGCA TGAGTATGAG 300  
 NAN 303

(2) INFORMATION FOR SEQ ID NO: 5391:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 147
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06424

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5391:

GATCCAGAAG AAGTGACCTG AAGTTTCTGT GCAACACTNC AACTAGGCA ATGCCATTTC 60  
 AATGCATTAC TAAATNACAT TTGTAGTTCC TAGCTCCTCT TAGGAAAACA GTTCTTGTGG 120  
 CCTTCTATTA AATAGTTTGC ACTTAA 147

## (2) INFORMATION FOR SEQ ID NO: 5392:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 128
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06425

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5392:

GATCAATTTCG ACAGACAGAT GGNGTGTATG CCCCTCCCAN GTTTGACTTC ACACACACTC 60  
 ATAACCTTTC AAATGAAGCC CCACAGTATA GCGCATATTT TNGATATTTT TGTGAATNCC 120  
 ANNAGGAN 128

## (2) INFORMATION FOR SEQ ID NO: 5393:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 122
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06426

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5393:

GATCCCTAGG AGCTGNCCTN CTTCCAGCCA NTGCCAGGAA CCAGCACTCC ATGAAGATAA 60  
 ACTCTGGGCC CGACCACCAG CAGGNCCTGA CGACCTGAGG TGACCCTNGG CCTTTCCCCC 120  
 NN 122

## (2) INFORMATION FOR SEQ ID NO: 5394:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 57
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06427

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5394:

GATCACAAAT TTTGATATGT GCTATACAGG AAATAAAGTG TTATGATTGA GAATAAA 57

## (2) INFORMATION FOR SEQ ID NO: 5395:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 359
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06428

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5395:

GATCTGAAAT CTTCACTAGG TTGATGTGGT TTCCTCTGCA GTGATTTTCC TAGGAAGTTC 60  
 AAATTTGACA GCGAGTTCAG CTCAGCTGTG GCCCTCTGCC CTTCCAGCTG TGCCTAGCAA 120  
 GCAAAACCCA GGNAAGAAGC AGTNGCCTCC TGGCCTTACA TACAGAATGC CTGGACAAGA 180  
 GAGAACTTGC TCGGNGCTGC TTTGTATTTT AAAACACAGC TTGNGAGTTC AGAGTTGGTG 240  
 GTTTGCTCAC TTAGCGTTG TTANGNTGGC TTGAAAAGTT TTCATTATGA TACTACTGGGT 300  
 ACCCTGGGCT TNGAATGTTN NCAACTTNGG NNNATCTNAT GGTTACCTNT GATTANNAN 359

(2) INFORMATION FOR SEQ ID NO: 5396:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 246
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06429

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5396:

GATCTACCCA CCTCAGCCTC CCAAAGTGCT GGGATTACAG GCATGAGTCA CCACGCCCGG 60  
 CCCTGNTTAT CAATCTTCAA TATTTTGTAT TTTGAGCACT TTGTTGGATT TGTTATTTAG 120  
 CACATGTATA CATTGTTTTA TTATAATATT GTGTGTAATT TATTTCTGAT TAATTTTATA 180  
 TCCTTCCTTC ACATTTCAA TACTTCTAAT TAAAAGCAGA CTGTTCAAAA AANNNNNGNN 240  
 NGNNNN 246

(2) INFORMATION FOR SEQ ID NO: 5397:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 133
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06430

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5397:

GATCTGGCTG AGGGCTCAGG ACACAGGCC AGCCACCCCC AGGGGCCTCC ACAGNCCGCT 60  
 GCATGACAGC NATACAGTAC TTAAGTGTCT GTNTAGACAA CCAAAGANTA AATGATTCAT 120  
 GGTTTTTTTT AAA 133

(2) INFORMATION FOR SEQ ID NO: 5398:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 119
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06431

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5398:

GATCCTGAAC CAAATTTATA GCAATATAAT TAGTGTTTNT CTAAGGCATT ACTCATCAAA 60  
 AAAATTGCTG CAGTCTTTAC AGTTGAATAA ATAAAAACAA CTGCATAAAT ATGCCCAAA 119

(2) INFORMATION FOR SEQ ID NO: 5399:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 80  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06432  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5399:  
 GATCACCACC TGTAGAACT GTTCTTCCTC TGTGAACTA ACGGCCTGCT GGTAATAAAA 60  
 GTAGCTACCA TTTCTTGAAA 80

(2) INFORMATION FOR SEQ ID NO: 5400:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 130  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06433  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5400:  
 GATCACTCAT TGCTAATTTT GTCCTGTACA GCTTATGTAA TATTTNNATG GTGGAGACGG 60  
 ACTCTGTGTG CTCAGGGCCT TGTCTCTAGG AAGATTTTGT CAATTCCAAA TACAGTTTTG 120  
 AAGATTCAAA 130

(2) INFORMATION FOR SEQ ID NO: 5401:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 379  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06434  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5401:  
 GATCAACTGA TAAGTTGCCT TATGTCACCA TGGGTTCTGG CTCCTTGGCA GCAATGGCTG 60  
 TATTTAAAGA TAAGTTTAGG CCAGACATGG AGGAGGAGGA AGCCAAGAAT CTGGTGAGCG 120  
 AANCATCGCA GCTGGCATCT TCAACGACCT GGGCTCCGGA AGCAACATTG ACCTCTGCGT 180  
 CATCAGCAAG AACAAGCTGG ATTTTCTCCG NCCATACACA GTGCCCAACA AGAAGGGGAC 240  
 CAGGCTTGGC CGGTACAGGT TGTGAGAAAG GGGACTACTG CAGTCCTCAC TGTGAAANTN 300  
 ACTCCTCTNG AGATTTGAGG TTNTTGGAAG AAACANGTCC AAACAATGGA CCACTTCCTG 360  
 AATTGGCATC ANTGGTNNN 379

(2) INFORMATION FOR SEQ ID NO: 5402:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 297  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06435

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5402:

```
GATCTGTAGT AAACAATGGT GATTTTATTT ATTTTNACTC TCTGGAAAAG GAGATAATAC 60
AATTCCAGAA AGTGAAGTCA TATTTCTAAG GTTAAGATTC CCTTTTATTG CACCTAGAAT 120
AGTGCTATGC ACAGAGCGGG TGCTTGAGTT GTTGTCGTTT TGTGTTTGTT TTTTAAATGT 180
AAACTGGTAA ATNTTGTGCT TATCTTCAAG GCTAGCTTAN GTATAAAATN GTTTTTTAAA 240
CACTTGNAAA ATTAAAGGAT TTGTTTTAAN NANCANNAG GGGNGGTGGT TNGGTNN 297
```

(2) INFORMATION FOR SEQ ID NO: 5403:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 294  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06436

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5403:

```
GATCAAATAG TTGCATAGCA GTATATGTNA ATTTGTGTGT TTTTAGCTGT GACACAGCTG 60
TGTGATTAAA AGGTATACTT TAGTAGACAT TTATAACTCA AGGATACCTT CTNATTTAAT 120
CTNTTCTTAT TTTTGTACTT TATCATGAAT GCTTTTAGTG TGTGCATAAT AGCTACAGTG 180
CATAGTTGTA GACATGGTAC ATTCTGGGGA AACAACATTT NTNTGTNGCC TTTACTGTTT 240
GATATACCAN ATNANAANAA AATTGGGTCT NATTNCTNAT GCTGGGGCAC CNTN 294
```

(2) INFORMATION FOR SEQ ID NO: 5404:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 103  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06437

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5404:

```
GATCCTCACC NCTTGGAATT AAAATNCTTG TTCACTCAGG CAAGCCTACA GTTTGCAACC 60
AAGTCTAGGG TTTCTGTAA TCAANGNCGT TTTTTCANTT AAA 103
```

(2) INFORMATION FOR SEQ ID NO: 5405:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 60  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06438

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5405:

```
GATCTGCTGG ACATCATGCC CCATGTCATA GAGAATAAAG CTGATGATTG TACCAGTAAA 60
```

## (2) INFORMATION FOR SEQ ID NO: 5406:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 91
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06439

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5406:

GATCATACCN ATAAAAATAA TNCCAAACAC CAAATATGAA TTTTATGAAT GTACACTTTG 60  
 TGCTTNACAT TAAAAGAAAN AAACACACAA A 91

## (2) INFORMATION FOR SEQ ID NO: 5407:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 108
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06440

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5407:

GATCGTCGCC TGCTGGCTAA GACCAGGGAG CTAAAACTT NAGGAAGGGA ACCTGCCTGG 60  
 TTGGNTGCTA CTTCTGATTC ATTGTCCTTN TCCCTNTCAT AAGTNCCN 108

## (2) INFORMATION FOR SEQ ID NO: 5408:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 321
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06441

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5408:

GATCTTATGT TTAAAGAGAT TCTGTTATTA GCACCATGAA CTCGTACTAT GAAATNTTTA 60  
 AGCCTTTTAT TTTTCTAACT ATATTACTGT AGGACTGGAT ATTAGGTGTC ATATAGGAAA 120  
 CACAAAAGTT ATTGCTGTTT GCTAAAGCAA AGTAGCAGAA AATTTTGTAT ATGCAAAACT 180  
 GTTGAAGGNC CATAGAGAAA TGTGTACTAC TGACGGGGCT TTTACTAGGC TTCCTGCGTG 240  
 TGTANAAGTC GAGGTTTTGG CTTGGCATTG AGGGTGACAT GGTGGTGCTA AATTGTTTTTC 300  
 CNTTTAAAG GCNTTCTATT N 321

## (2) INFORMATION FOR SEQ ID NO: 5409:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 390
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06442

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5409:

GATCCGCAGC AGAAGCTCTT CCCTTCTGTA TCCTATGTAT GCAGTGTGCT TTTNCTTGCC 60  
 AGCTTGGGGC ATTCTTGCTT AGACAGTCAG CATTTGTCTC CNCCTTTAAC TGAGTCATCA 120  
 TCTTAGTCCA ACTAATGCAG TCGATACAAT GCGTAGATAG AAGAAGCCCC ACGGGAGCCA 180  
 GGATGGGACT GGTCTGGT TGTGCTTTTC TCCAAGTCAG CACCCAAAGG TCANTGCACA 240  
 GAGACNCCGN GTGGGTGAGC GCTNGCTTCT CAAACGGNCG AAGTTGCCTC TTTTAGGNAT 300  
 CTCTTTTGGA ATTTGGGAGC ACGATGNCTC TNGAGTTTGA GCTATTAAAG NACTNCTTGG 360  
 CACATTAANA AAANANAAAT GNGGTNNGNN 390

## (2) INFORMATION FOR SEQ ID NO: 5410:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 197  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06443

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5410:

GATCCCAGGG AAATATCAGC CTTGGGCAAC TGCAGTGACC AGGGGCACCG GCTGCCCACA 60  
 GGGAAACACAT TCCTTTGCTG GGGTTCAGCG CCTCTNCTGG GGCTGGAAGT GCCAAAGCCT 120  
 GGGGCAAAGC TGTTTTTCAG CCACACTGAA CCAATTACA CACAGCGGGA GAACGCAGTA 180  
 AACAGCTTTC CCACAAA 197

## (2) INFORMATION FOR SEQ ID NO: 5411:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 104  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06444

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5411:

GATCTTCAAG TGAACATCTC TTGCCCTGAT TGAAGGCTTT GCCACATGCT GGAAGGCCCC 60  
 CTCCCAGGAA GATGGGGGTC ATTAAAGGAA ACTNAACATT GAAA 104

## (2) INFORMATION FOR SEQ ID NO: 5412:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 244  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06445

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5412:

GATCACCTGA ACAATCTAGA TGTGGACAAA ACCATTGGGA CCTAGTTTAT TATTTGGTTA 60  
 TTGATAAAGC AAAGCTAACT GTGTGTTTAG AAGGCACTGT AACTGGTAGC TAGTTCTTGA 120

TTCAATAGAA AAATGCAGCA AACTTTTAAT AACAGTCTCT CTACATGACT TAAGGAACTT 180  
 ATCTATGGAT ATTAGTAACA TTTTCTACC NNGNNGTCCG TAATAAACCA TACTTGCTCG 240  
 TAAA 244

(2) INFORMATION FOR SEQ ID NO: 5413:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 139  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06446

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5413:

GATCTNAGAA AANGCACCAC GTNAGCTTAC TAANTNATAA TATCTGTTTC TACTACGGAT 60  
 TTAGGCAACA GGACCTGTAC ATTGTCACAT TGCATTATTT TTCTTCAAGC GTTAATAAAA 120  
 GTTTTAAATA AATGGCAAA 139

(2) INFORMATION FOR SEQ ID NO: 5414:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 196  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06447

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5414:

GATCGGGGTC CATGGGCCCCA CCACCCCTG CAAGGAGGTC TCCATGAAGC ATGTAGGCAA 60  
 CCAGCAATAC AACGTCACAT ACGTCGTCAA GGAGAGGGGC GATTATNTNC TGGCTGTGAA 120  
 GTGGGGGGAG GAACACATAC CTGGCAGCCC TTTTCATGTC ACAGTGCCTT AAAACAGTTT 180  
 TCTCAAATCC TGGAAA 196

(2) INFORMATION FOR SEQ ID NO: 5415:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 69  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06448

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5415:

GATCCATTAA TCTGCTAATT GGTTGCCTAT GAAATCACAT TGTCTGTTAT TAAAGCTTTT 60  
 TACCATAAA 69

(2) INFORMATION FOR SEQ ID NO: 5416:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 119  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single



(D) TOPOLOGY: linear  
(vii) IMMEDIATE SOURCE:  
(B) CLONE: HUMGS06449  
(ix) FEATURE:  
(D) OTHER INFORMATION: "N"=unidentified base  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5416:  
GATCTAGTAA AGTGTTTT TAG AACCCCTTTT TATCCCATGC ACCATTCAGT AACATAAAA 60  
ATCACAATTC TGCTAATGTC ATTTGGAAC TCAAATAAA TATCTGTCT AAAAACAAA 119

(2) INFORMATION FOR SEQ ID NO: 5417:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 308  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear  
(vii) IMMEDIATE SOURCE:  
(B) CLONE: HUMGS06450  
(ix) FEATURE:  
(D) OTHER INFORMATION: "N"=unidentified base  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5417:  
GATCATTGCA TGAATAGAAT CAAGGAGCTC ACTCAGAGTG AACTTNAATT ATNACTTTNN 60  
AGGCTCATT GTACTCTCTT CCCCTCTCAT CGTCATGGTC AGGCTCTGAT ACCTGCTTTN 120  
AAAATGGAGC TAGAATGCTT GCTGGATTGA AAGGGAGTGC CTATCTATAT TTAGCAAGAG 180  
ACACTATTAC CAAAGATTGT NGGTTAGGCC AGATTGACAC CTATTTNTNG NCNNTATGCG 240  
TATATTTNCC TGTGCTATAT ATGAAAANTA ATTGCATGAT TTCTCATTCC TGNGTCAATTT 300  
CTCAGNGN 308

(2) INFORMATION FOR SEQ ID NO: 5418:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 293  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear  
(vii) IMMEDIATE SOURCE:  
(B) CLONE: HUMGS06451  
(ix) FEATURE:  
(D) OTHER INFORMATION: "N"=unidentified base  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5418:  
GATCTGAAGG GAGAAGGTGA TATTCATGAA AATGTGGACA CAGACTTGCC AGGCAGCCTG 60  
GGGCAGAGTG AAGAGAAGCC CGTGCCTGCT GCGNCTGTGC CCAGCCCGGT GGCCCCGGCC 120  
CCAGTGCCAT CCAGAAGAAA TCCCCCTGGC GGCAAGTCCA GCCTCGTNTT GGGTTAGCTC 180  
TGACTGTCCT GAACGCTGTC GTTCTGTCTG TTTCTCCAT GCTTGTGAAC TGCACAACCTT 240  
GAGCCTGACT GTACATNTTT TGGATTTGTT TCATTANAAA GAAGCACTTT AAA 293

(2) INFORMATION FOR SEQ ID NO: 5419:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 180  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear  
(vii) IMMEDIATE SOURCE:  
(B) CLONE: HUMGS06452  
(ix) FEATURE:  
(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5419:  
 GATCCTGGNA CATTTCATAA GCTTGGGTAA AAAAATTTT TGTTATNNTC CATGCACAAT 60  
 AAGGGAAATG TTTTAATTGG CTTTGNGCCT CCTGCTTTAC AACAGTTCTG GCCTCAAGTT 120  
 ACCAGGTAGC CTGAACCTTG NTTTTATTTT ACCATTAANT TGCTTTAATA CCATNGTAAA 180

(2) INFORMATION FOR SEQ ID NO: 5420:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 99  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06453

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5420:  
 GATCACTTGA GCCCANGTTG AGGTTGAGGC TGCAGTGAAC TATNATTGTA CCACTGCACT 60  
 TCAGCCTGGG CAACAAAGGA AGACCCCACT TCTGGGAAA 99

(2) INFORMATION FOR SEQ ID NO: 5421:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 209  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06454

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5421:  
 GATCCCTGCA TTNCCTGAAG ATNTTTAAAC GTGAGAGTNT GGTAGGCAAA GCAGTCTGAG 60  
 AAAGAAATAG GAAATGCAGA AATAGGTTTT TTTTGTTGTC ATATAATCTT TGCNCTTTTT 120  
 AAGCTCTGTG AGCTCTGAAA TATATTTTNG GNTTACTTCA GTGTGTTTGA CAAGACAGCT 180  
 TGATATTNCT NTCAAACAAA TGACTNNGN 209

(2) INFORMATION FOR SEQ ID NO: 5422:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 246  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06455

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5422:  
 GATCCAGTGG ACAAAGAGG GGAACTATG GGAGTTCCCA ATTAACAATG AAGCAGGTTT 60  
 TGATGATGAT GGTTGAGANT TTCATGAACA TATATTTNTG GAGAAACACC TGGAGAGCTT 120  
 TCCAAAACAA GGACCAATTC GCCACTTCAT GGAGCTGGTG ACTTGTTGCC TTTCCAAAAN 180  
 CCCATATCTT AGTGTTAAAC AGNNGGTTGA NCACATNGAG TGGTTTAGAN ATTNTTTTNA 240  
 TGNNAN 246

(2) INFORMATION FOR SEQ ID NO: 5423:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 105  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06456  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5423:  
 GATCTGCTCA GAAAGGAAGA GGCAGGCGCC AGGGNGAACC CCCTTCCGTG NTTTGTAACC 60  
 CTCCCTNTAA GGTGAAGCCC TTTTNCTTGC TAAAACCGGN AATTN 105

(2) INFORMATION FOR SEQ ID NO: 5424:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 159  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06457  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5424:  
 GATCCTGGGG GTCGTGGCTA CCCCCTCCTC GTGGCCGNNC TCCTTGCTGC TCCTGTCAAT 60  
 AGTGAGCTTG TGCCGTCCCN CTAGGATGGG GGCATGGCCN TGGGCTGCCA GATGCCCACA 120  
 GCACCCTGGC ATGACCTNCC ACCTNGGGTT CCANACCGN 159

(2) INFORMATION FOR SEQ ID NO: 5425:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 211  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06458  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5425:  
 GATCACCTAT CCCCTGTTTC AACAAATGAAT AAGGAACAGC AAATNTTTGA GACGTGCCCT 60  
 GAAACTGAAC AGAGATGCAC TCTCCAGTGA CTCCCCAGCA AACACAAGGT GCAGCAGGGT 120  
 CCCAAAGGTA GCTGGNTGGC TGANCTGCTG GNTATGGGAG ATACATGACG CGAAGACCGN 180  
 TTTNACATCC ACAGGGCGGT NTTNANGAAA N 211

(2) INFORMATION FOR SEQ ID NO: 5426:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 66  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06459  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5426:

GATCCACCAC AGGGTTAGGG GACAGGAAGC CTGTTCTATT CTCAATAAAT CTTACAAAAT 60  
TCCAAA 66

(2) INFORMATION FOR SEQ ID NO: 5427:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 189
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06460

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5427:

GATCATTATT TCCATTCTTA ATGTGAAAAA AAGTAATTAT TTATACTTAT TATAAAAAGT 60  
ATTTGAAATT TGCACATTTA ATTGTCCCTA ATAGAAAGCC ACCTATTCTT TGTGATT 120  
CTTCAAGTTT TTCTAAATAA ATGTAACCTT TCACAAGAGT CAACATTAAA AAATAAATTA 180  
TTTAAGAAA 189

(2) INFORMATION FOR SEQ ID NO: 5428:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 193
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06461

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5428:

GATCTAGACA TGCCTTAGGT AACTGCAGAA ATAGCAAATT AAATNATTAA TGAGCTTATT 60  
AGTCATAGTA AACATACAGA TTCCTANTTC TATGACAGTG TACATNTATG ANAATAAATG 120  
ATGAAAAAAG AACTATAGTA TTTTAAAAA TATGCTTTTA TTTNTATTC ACATAGTGNA 180  
AAGTTCTACA NAN 193

(2) INFORMATION FOR SEQ ID NO: 5429:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 270
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06462

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5429:

GATCACATTT CTGGGAAGAT GAGANCTNNT TTCCAGACCA GCATCCAGTG GCCATCAGGT 60  
CTTGTGGCCC AAAGGCTATG CTTGCCTCCG GCTGAGTGCC TGGNATAGGC CTTTNCATG 120  
TCTCCCCAAG GCTGGGGTGC TGAGCCTGCC TTCCTCACCA CCTAGCCATA GTCTCAAACC 180  
TGTGGGGAAG GNGGNNTTCT CCCTGCCCCG GAAGAGGACA GATAACTGAT TTCCGTTCTT 240  
TTGACTGTGT TTTAAAATTC TCTTTCTAAA 270

(2) INFORMATION FOR SEQ ID NO: 5430:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 162  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06463  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5430:  
 GATCTCCTGG GACTCCGAGC AAGGCCTGCA CGAGAGAGGG CTGAAAGGCT GCTGGGGCTG 60  
 CCACCTCGCT ATTCCCGCAT AAGCATCTGC CCCCACCCC TTTGACCTTC ATCTGATGGA 120  
 CATT TTTATA CAGAAAACAA TAAAGATTTC CCTCTCAGCA AA 162

(2) INFORMATION FOR SEQ ID NO: 5431:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 83  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06464  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5431:  
 GATCAGTTGT ACTAGAGGAA CATCATAGAA GAGAAAAATC CAACTCTTTA TATTA AAAAT 60  
 NAATACAATA AGAAAATTGC AAA 83

(2) INFORMATION FOR SEQ ID NO: 5432:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 168  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06465  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5432:  
 GATCTGCAAG CCCTGCTGTA CAAGAAAATC ATTAAGGAAC ATTTGGAGAG TTAGCTACTA 60  
 GCTGCCTAAG TGTGCAC TTT CAATCTAACT GTGAAAGAAT CTTCTGATGT TTGTATTATC 120  
 CTNCTTATAT TATATTANCA AAATAAATCA AGTTGTGGTA TAGTCAAA 168

(2) INFORMATION FOR SEQ ID NO: 5433:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 357  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06466  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5433:  
 GATCCACCCA CCTTGGCCTC CCAAGGTGCT GGGATTGCAT GCATGAGCCA CTGCACCCAG 60

CCAAGATACA TTGTTGACGT GAAAAAAAAA TTTCAAGATA TATAGAACAG TGTAACATG 120  
 CATCCAATTG TGTTTTTCAN GGAGAAAATA ATGTATACTT GTATTGGTTT ACGTATGAAA 180  
 CAAAANTATC TAGAAGGATG AATAAAAATC TAGTAACTGA TTNTACACTA GGGCAAATTG 240  
 GAAACAANTG GGNGACTTCA TGGATGACTT TTTTATATTT GTAAAGTGGA NGTGANTGTN 300  
 TTACTTATTC CACCAGTTAN GTTGAAACCT TTNNNNGGNA GGTNGTGGT GNTTNTN 357

(2) INFORMATION FOR SEQ ID NO: 5434:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 175  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06468

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5434:

GATCAGATGG CTTAGAGAAA TTNCTGGAAT ATTCACATTC GAAGATTCCT TATTAATNAA 60  
 TGTCTTTNAC TTAAATCTAA CCAAAACTG CAACATTATT CTTTGTACAT TTNCATTATA 120  
 TAGTGTTAAC AAGCTTAGTT GCANACAANT AAAATACTTA AGCTATTTGT TTAA 175

(2) INFORMATION FOR SEQ ID NO: 5435:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 218  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06469

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5435:

GATCTGGTGA AACTNGCTAA ACGNCTCAAG AAGGAGAAAG TTAATNTTGA CATTATCAAT 60  
 TTTNGGGAAG AGGAGGTGAA CNCAGAAAAG CTGACAGCCT TTGTAAACAC GTTGAATGGC 120  
 AAANATGGAA CCGGTTCTCA TCTGGTGACA GTGCCTCCTG GGCCCAGTTT GGCTGATGCT 180  
 NTCATCAGTN CTCCGATTTT GGCTGGTGAA GGTGGNNN 218

(2) INFORMATION FOR SEQ ID NO: 5436:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 153  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06470

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5436:

GATCACAGTG GGCAGCCGGC ACCCNGCACC ACTTTGGCGA GCGTCCTGCT TCCGNCCTCG 60  
 CCCTCATCTA CGCTGCTCCG CTTTCCTCAG ACCCCTTTTT GCCGTGCAAA GGGAATTCTT 120  
 GACATTAAAT AAAAGGTATC CAGNTTGCAG AAA 153

(2) INFORMATION FOR SEQ ID NO: 5437:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 310  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06471  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5437:  
 GATCAGTTGG GTGCACGAGT GGGTTACATC GAACTGGATT ATAGGAAGCT TATAACAAGA 60  
 ATGGAAGATT CTTAAATAAC TCACTTTCTT TGGNATCCAG TAACAGTAGA TGTTCAAAAT 120  
 ATGTAGCTGA TTAATACCAG CATTGTGAAC GCTGTACAGC CTTGTGGTTA TTTACTAAGCA 180  
 AGTTACTACT AGCTTCTGAA AAGTAGCTTC ANAATTAATG GTTATTTNTA NACTGCCCTT 240  
 CCNTGGCTGN TACTTTNCCC TAAGNTNAAT CTNCGAGAAT CTGAAATGNT TNCTNCANTT 300  
 NTCAGGGAGN 310

(2) INFORMATION FOR SEQ ID NO: 5438:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 67  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06472  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5438:  
 GATCACATTN GATNAAAGAG CAAAACCTGT TAAGTCCAAA ATAAATTCTT ACTGTTTATA 60  
 TCCTAAA 67

(2) INFORMATION FOR SEQ ID NO: 5439:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 268  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06473  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5439:  
 GATCCACAGA AGGTCCTGGT GGTATTTGTA ACTTTTTGCA AGGCATTTTT TTATATATAT 60  
 TTTTGTGCAC ATTTTTTTTT ACGNTTCTTT AGAAAACAAA TGTATTTCAA ANGTATATTG 120  
 ATAGTCGANC AATTCATATA TTTGAGGTGG AGCCATATGA ATGTCAGTAG TTTATACTTC 180  
 TCTATTATCT CAAACTACTG GCAATTTGTA AAGCNATATA TATGNTATAT AAAGGTGATT 240  
 GCNGCNTTNC ANTGTTAGCC CCNGTGNN 268

(2) INFORMATION FOR SEQ ID NO: 5440:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 306  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06474

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5440:

```
GATCCAGGCT CAGAACTTCT TCTCCAGCTT CACCCTGATG AAGCTGAGGC ACTCCTCCGC 60
TCTGGGTGGG GCCAGCCTAG GGGCCAGGCA CATCGGGCAC CTNCTCCCCA TGGACTATAG 120
CGCCAATGCC ATTGCCTTCT ATTCCTACAC CTNTTCCTAG GGGGCTGGTC CCGGGCTCCA 180
CCNGGTCCAA GCTCAGTGGA CACTGGGTCT GAAAGGAAGG AGTCTTTTGN TTCCTTTCTC 240
CTNTTTACAN GAACAAACAT AGATGGTAAA TAAATNNACT TTNTCCNNCT CCCCAGAANN 300
NAATNN 306
```

(2) INFORMATION FOR SEQ ID NO: 5441:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 111  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06475

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5441:

```
GATCAGCTAC ATAAAACGGC CTGAGTGCTG TTTTAAACAG CNCTTGGGTG ATGGTACAAC 60
ATNACTTTTT AAGATAATNA NGTAGTAAAA GTTCTAGTG GAAACATGAA A 111
```

(2) INFORMATION FOR SEQ ID NO: 5442:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 255  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06476

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5442:

```
GATCCCAACA TTTTGGCAG TGAGCATTAC GATGTTANCC GTGGGGTGCA AAANATCTGA 60
ATAAAATTTA CAAAAGGAGA ATTCAGACAG ACCAACCTGG GTNATGTGTT TCAAGCTCTG 120
CCCCAGGAGC TTGAATGTCT NTNCCTNGTG GCAGGAGCAT TCCTAGAGAC TGGTGCATCA 180
GGTTTTATGT TGTTGTCTCT CTGCTCCAGC TCACCCNTNA AANCTCTNCC CTNGGATGTT 240
GGAACTCANA TTCTN 255
```

(2) INFORMATION FOR SEQ ID NO: 5443:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 313  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06477

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5443:

```
GATCCCATAA AGCTACGAGG GGGACGGGAG AGGGCAGTGC AATGGGAAGT AAAGAGATAT 60
```



TTNCCAGTAG GAAAAGCAAT GCTTTCTTGT CTTTAGACTC AAATGCTTAG GGAACGTTTC 120  
 ATTTCTCATT CATGGGGAAA GGCAGCCTCC TTAAATGTTT NCTGAAGAGC GGTAAAATCT 180  
 AGAAGCTTAA GANTTTNCAG TTCCTTCAAT AACCATGATG ACCTGAAGTN CACCTATCCC 240  
 ATTTTAGCAT CTNCTTGTTT TNCCCATCTC TNCCTTTCCA ATTTTNCTTA TNCTGCTGTA 300  
 ATATTTTGT AAA 313

(2) INFORMATION FOR SEQ ID NO: 5444:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 218
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06478

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5444:

GATCAGCTCA CACCCAGTCT CTCACAAGTN TTCATTCCAT AAAAGTGGTT GACTAAAGTG 60  
 AATATGTCCA TAGTGGGGTC TTTTAATCCC TCTGGTCTTA CCANGGGTTA GANGTCTNTN 120  
 GGTTNTAACT TTTCCATATT GTTAGAACAT CATGGNGACA TCATGTNCAT CTGTTCAAAA 180  
 TTACAAGAGG CTTTTNCAAG CTCTACCATG CTTTGNAN 218

(2) INFORMATION FOR SEQ ID NO: 5445:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 256
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06481

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5445:

GATCATTGTG AAGGCAGGGG AATGTATGTG CACATCTGTT TTGTAAGTGT TTAGATGAAT 60  
 GTCAGTTGTT ATTNATTGAA ATNATTTTAC AGTGTGTGGT CAACATTTCT CATGTNGAAA 120  
 CNTTAAGANC TAAAATGNTC TAAATATCCC TTGGACATTT NATGTCTTTC TTGTAAGGCA 180  
 TACTGCCTTG TTTAATGGTA GTTTTACAGT GTTTCTGGCT TNGANCAAAG GGGCTTAATT 240  
 ATTGATGNNT NGGATN 256

(2) INFORMATION FOR SEQ ID NO: 5446:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 344
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06482

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5446:

GATCCGGAAG CGAATTCATC TCCGAGCTGA GGATNCCTTG TTTTNTTTG TCAACAATGT 60  
 CATTCCACCC ACCAGTGCCA CAATGGGTCA GCTNNACCAG GAACACCATG AAGAAGACTT 120  
 CTTTCTCTAC ATTGCCTACA GTGACGAAAG TGTCTACGGT CTGTGAAGCT GCTGCCCCTG 180  
 AGCTGGAGGG GGGTCTCATT CTACAAAGAG AGAGGTGGCC CCCCTTTCTT GACCTGCTCC 240

TCCTTCAAGC TTAAACANCA CCTCCTTATT CAGGACCGGC ACTTCTTAAT GTTTTGTGGG 300  
 CTTTCTNTCC AGCTNTCTTT NGGNGGGGTA ATGGGTNGGA GTTN 344

(2) INFORMATION FOR SEQ ID NO: 5447:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 334
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06483

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5447:

GATCTTTCTA GGAGGGAGAC ACTGGCCCTT CAAATCGTCC AGCGACCTTC CTCATCCACC 60  
 CNATCCCTCC CCAGTTCATT GCACTTTGAT TAGCAGCGGA ACAAGGAGTC AGACATTTTA 120  
 AGATGGTGGC AGTAGAGGCT ATGGACAGGG CATGNCACGT GGGCTCATAT GGGNCTNAGA 180  
 GTAGTTGTCT TTCCTGGCAC TAACGTTGAG CNCCTGGAGG CACTGAAGTG CTTAGTGTNC 240  
 TNGGAGTATT GGGGTCTGAC CCCAAACAAC TTTCAGNTTC NNTAACATAC TGGNCTTGA 300  
 CTGTTTTNTC TNGGTNCCNN ATGGGTCCTG GTTN 334

(2) INFORMATION FOR SEQ ID NO: 5448:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 80
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06484

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5448:

GATCTAGAAA GCCCTAAGCT CTCACCACTG GCTACCTTGA GCCTCTACAG AATNAGGAAG 60  
 TAAAGTCTAA GGCAGTTAAA 80

(2) INFORMATION FOR SEQ ID NO: 5449:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 147
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06485

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5449:

GATCGCANCT CCGAAGACGG AGAGGAGGGA AATGGGGCCC TTTCCCCTCT ATTGCATCCC 60  
 CCTGCCCGNC TCCTTCCCCG CACCCACGTG CCCTAGATTC ATGGCAGAAA ATGNCCAAAT 120  
 CCNGNGTATT TGTGTANAT ANTAAAN 147

(2) INFORMATION FOR SEQ ID NO: 5450:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 109
- (B) TYPE: nucleic acid

(C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06486  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5450:  
 GATCATTGTA TATNACACAC ATGTATCAAA GTATCACATG TACTCCAAAT GTTTGTACAA 60  
 CTATNATATA TCATTAAAAA AATACAAANT AAAAAATGTA GCTATGAAA 109

(2) INFORMATION FOR SEQ ID NO: 5451:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 274  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06487  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5451:  
 GATCCAGTGT GCAGAAGAGC CAGCAGGGAA CCGGAAGCTC TNATGTCAAG GCCAGAGCAG 60  
 TTGAGANTGG GNCCCAGAGT AGATGCTGAC CTGGGCACTC CACCATTCCG GGGCCACCAC 120  
 AGAGATGCCA GCAGGATGCC ACTTTNCCAG CCCGACACAC GGACCTTTNT AAAGANCAGC 180  
 AACAGGCAGG AGAGGCAGCG TNTGNCCAGA TTGTTTCCCG TCATTGGGTG GCATNTGTTA 240  
 NCTAGCTGNC AAACANCTTC ANCCCGTGTA ATTN 274

(2) INFORMATION FOR SEQ ID NO: 5452:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 183  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06488  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5452:  
 GATCACGGCT CTTTTTAAGC CCTGGCAGCA TTTTGGTCCC TGCTCCTTGC CCATAGTAAA 60  
 ACAGCTTGAA ATATCCCATG CAAGAGAGTA GTTTCAAGTG GGCAACTCTG CTCTCTATTT 120  
 AAAAGCGTGC ACAATCAAAA GTACTATGCA ATTTTAGGAC AATAAAGANC ATACAGTTTT 180  
 AAA 183

(2) INFORMATION FOR SEQ ID NO: 5453:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 215  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06489  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5453:

GATCACCAGT GGGCACTAGA TGATGTNGAA GAAGAGCTCA TGGCCAAANA CCTCCACTTC 60  
 GAAGGCATGT TCAAAAAGGA ATTACAGACC TCTATTTTTT GAAGACCGAG CAGGGATTAG 120  
 CTGTGTCAGG AACTTGGAGT TGCACTTAAC CTTGTAACTT TGTTTGGAGC TGGCACCTCT 180  
 TGAAATAAAA AGGGAGGNTG CACGAGCTGG GCAAA 215

(2) INFORMATION FOR SEQ ID NO: 5454:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 70
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06490

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5454:

GATCAAAAAA TTCAATTTC TACAAGTTCT NCTATCTGAA ATAAATAACA GACTCATTTT 60  
 TGACAATAAA 70

(2) INFORMATION FOR SEQ ID NO: 5455:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 104
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06491

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5455:

GATCANGNTA GTGGTGTCTG TCAGCTGTCT AAGAGGTTGG AGAATNAACT ACTCAAGATA 60  
 GTCACGAAAA NACTGAAAGT TTNATTTTCC TTTCCATATT TAAN 104

(2) INFORMATION FOR SEQ ID NO: 5456:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 214
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06492

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5456:

GATCCCAAGT ATCCTTGNAT CCATGTAATT TCAGATGAAT TATTAAGCAA ACATTTTAAA 60  
 GTGAATTCAT TATTAATAAC TATTCATTTT TTTCTTTGG CCATAAATCC NCTAATTNTC 120  
 ATTAATAATC TAAGGTCATT TCAACTGTTT TAAGCTGTAT TNCTTTAATT CTGCTTACTA 180  
 TTTTCATGGAA AAAANTAAAT TTNTCAATTT TAAA 214

(2) INFORMATION FOR SEQ ID NO: 5457:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single

(D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06493  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5457:  
 GATCCAGAAT AACTTCTCCC ACTCATATCT NCAGTTCACC NAATGAAATN AATGGATAGC 60  
 AAGAGCCCNT TGTTCACAGG ACTTTAAGGC AAAATATTAA AANTN 105

(2) INFORMATION FOR SEQ ID NO: 5458:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 56  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06496  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5458:  
 GATCCTTTTA TAAATTTAAA AAATTTAATG TTAATAAAGC GAGGTGTAAT TGTAAG 56

(2) INFORMATION FOR SEQ ID NO: 5459:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 103  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06498  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5459:  
 GATCCGNGAA AGGCTGAAAG GCCAGGAAGA CAGCCTAGCC TCTNCAGTGG ATGCTGCCAC 60  
 CGNACAAAAG ACCTGTNACT CCGACTGAGG CATGNCCTGC CCN 103

(2) INFORMATION FOR SEQ ID NO: 5460:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 190  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06499  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5460:  
 GATCNTGGAT NTAGAAGAGG TNACATTGCA CAATGTTTGA ATAAGGAAAC TATTGGAAAG 60  
 TTTTTC AAG CTGACATTGC AGAAAATGCT TTGNAAAATT CCTCAGAAAC AGAAATACCT 120  
 ACTGTCAGCG TTTAGCTGA TGAAGANTTC CTTCCCTNCA AAGAAAATAC ATTTGACCTG 180  
 GTGGTNNGCN 190

(2) INFORMATION FOR SEQ ID NO: 5461:  
 (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 105  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06500  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5461:  
 GATCCCGCCC ACTCAGAAAA GGCGAGAAGG CTTTGTAATT TTCTACATGA ATCAAACACA 60  
 GAAACAACCTT TTGGAGAAAT TAAATTCTGA GTGTNACTTC TGAAA 105

(2) INFORMATION FOR SEQ ID NO: 5462:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 83  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06501  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5462:  
 GATCTTCTTC ACACCAAGCT CTGTTTACAT TCCGAGAGTT GTCATGAAGA AAGTNCTNNT 60  
 CAATAAGNTT TTGGAATGTT AAA 83

(2) INFORMATION FOR SEQ ID NO: 5463:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 180  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06502  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5463:  
 GATCAGGACA CGAGGAAGAG TAAATGTGAG ACAGTCAATG TGACTTCTGC GATAAACAGA 60  
 TTTTAAACC CCGAAATTTT GCAAATTTT GGTGAACCTG ANCTTNCTTC GTTGCATATG 120  
 CTGGCACTAT CTGTACCATC ATACANCTGT CTCACATTAA AGCTATTTTC CTTGGGCAAA 180

(2) INFORMATION FOR SEQ ID NO: 5464:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 214  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06503  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5464:  
 GATCATCTCC CCTGGCAACG TGACTCTGTT TTTTGTGTGT GTTCCATGC TGACTAGTCC 60  
 CCTACTGTTA ATATCACTAC TAATTAGGCT ATAACCAGGT CTTTCCTGGC CTGAGAAATA 120

TTCTCTTAAA ATNACCTTTG TTTTAATCTC ATTCATGATG TTGATTTTTT TTCAATGTGG 180  
 TGCAATATAT ACANTAAAN TNGTCATANC TAAA 214

(2) INFORMATION FOR SEQ ID NO: 5465:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 186
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06504

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5465:

GATCTGTCCA GGGAGGTGGC TGAAGAGTGG GCATCTCCCT TAGGGACTCT ACTCAGCACT 60  
 CCATTCTGTG CCACCTGTGG GGTCTTCTGT CCTAGATTCT GTCACATCGG CATTGGTCCC 120  
 TGCCCTATGC CCCTGACTCT GGATTTGTNA TCTGTAAAAC TGGAGTAAAA ACCTCAGTCG 180  
 TGTAAA 186

(2) INFORMATION FOR SEQ ID NO: 5466:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 117
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06505

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5466:

GATCTTTGCT TCCTTNCAT TATGTTTGTA CACAACACCT AAAACCAGTT TTGCTGCTAT 60  
 ANTTCTATAC TGTTGATTCG TCTGCNANNT ATCTGTAACC AAATAAACAT AATAGGN 117

(2) INFORMATION FOR SEQ ID NO: 5467:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 309
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06506

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5467:

GATCCAAACC AAAGACTGTA GAACCCTGGG GTGTGGCTAA CTGGCCCN TN CNGCACCCGT 60  
 AGCCAGGTCT TCCTGGCCCT TNAGGCTGGG CTGGCGGACA GGCACCTNCC TGTTCTTAA 120  
 GCTGAAGCTC CCACACTGTC TTCCAGGGCT GAGGAGATGC TCTCCTTTTC TACTGACCAT 180  
 CTTGATACTT ATTTATACGA GAGNCAGTTG CTGGACGGGG TAGTACTGGG AAGCAGGAGG 240  
 CAGAATGGCT CTGCTGAGCC TNCNACCCAT GGNCAACANC CTAATAAAAC AGANCATTTC 300  
 AGAGCCAAA 309

(2) INFORMATION FOR SEQ ID NO: 5468:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 97

(B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06507  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5468:  
 GATCCCATAC CAGAAGATGA GAAAAAAGAA TAAGTGTTGC CTTGTTTTGT GTGTTCTAAA 60  
 TACTTTTTNT AATGAAAAAA TGNTTTTTNG TTTTAAA 97

(2) INFORMATION FOR SEQ ID NO: 5469:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 67  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06508  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5469:  
 GATCATCTAA ACTAAGTCCA GCTGCCTAAT TCTAGATATA TATATATATA TAGAGNTCCA 60  
 CCATAAA 67

(2) INFORMATION FOR SEQ ID NO: 5470:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 72  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06509  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5470:  
 GATCTTGGGA AGTATTCCCA AGGAAAACAG TCCTGGGCAC AGTCTCCAAA ATAAATTCTN 60  
 AATTTTGGGA AA 72

(2) INFORMATION FOR SEQ ID NO: 5471:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 467  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06510  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5471:  
 GATCCCATGG CTTTCTTTAC TGGGCTCTGG GGCCCCCTTCA CCTGTGTAAG CAGAGTGCTG 60  
 AGCCATCACT GTTTCAGCAC CACTGGGAGT CTGAGTGCGA TTCAGAAGAT NACGCGGGTA 120  
 CGAGTGGTGG ACAACAGTGC CCTGGGGAAC AGCCCATACC ATCGGGCTCC TCGCTNCATC 180  
 CATGTCTATA AGAAGAATGG AGTGGGCAAG GTGGGCGACC AGATACTACT GGCCATCAAG 240



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GGACAGAAGA AAAAGGCGCT CATTGTGGGG CACTGCATGC CTGGCCCCCG AATGACCCCC 300
AGATTTGACT NCAACANCGT GGTCCTCATT GAGGNCAACG GGGAACCCCTN TNGGNGACAN 360
GTATTNAAGA CACNGTNCCC ACCTAGGCTG TGGNAGGGTG AAGGGCGAGT TTTCCCAAGN 420
TGGTGGGCCT TNGTTNAGAN CTTTGTGTTG NGTTTGGNNC NNGNTAN 467

```

## (2) INFORMATION FOR SEQ ID NO: 5472:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 327
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06511

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5472:

```

GATCTTAAGT NTCTTGACTG ATTTAAAAAG CTAATCAATT TATTAAAGCC AGANATGTNC 60
TCCTCTGGGA AAGCAATTTT TATCTATTTA TCTACCAATC CCCACTCACA TATATATGTT 120
TGTNTTTTACA TAGAGATAGA TGGTTTTTAAG GGTTCCTTA TTGTTAAATT ATTCCTAAG 180
ACATTGTGGG NTGGAGACCA CTAAACTTAT AAAAAACCAA GGAAAGTAAA GTTTTNCAAA 240
TGTTTATACT GTTTAAGGTG TTTATTTATN TAANCCATGC ATGGGGTNNC ATGCATAANT 300
NNNGNGGTTT AAATTTACC AGTGANN 327

```

## (2) INFORMATION FOR SEQ ID NO: 5473:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 70
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06512

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5473:

```

GATCAAGGAA CTTGTGCCTG TCTATAGATT TTATTTCCCC TGTACAAATA AACTTGGCTG 60
CAATCCCAA 70

```

## (2) INFORMATION FOR SEQ ID NO: 5474:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 414
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06513

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5474:

```

GATCTTGCAA GACTAAAATT GGCCATTAAG TACCGTCAA AAGAGTTTGT TGCCAGCCCC 60
AATTGTCAAC AGCTGCTGGC ATCTCGCTGG TACGATGAGT TTCCAGGCTG GAGGAGAAGA 120
CACTGGGCAG TGAAGATGGT GACATGTTTC ATAATAGGAC TTCTTTTCC TGTCTTCTCT 180
GTGTGCTACC TGATAGCTCC CAAAAGCCCA CTTGGACTGT TCATCAGGAA GCCATTTATC 240
AAGTTTATCT GNCACACAGC CTNCTATTTG ACTTTTTTGT TCCTGNTGNT GCTTGCCTCT 300
CAGGACATAG GCAGGTCAGG NNTGANCNGG GAAGGTCCAC CACCACCATC GTCGAGTGGA 360

```

TGATATTGNC NTGGGTNCTN GGNNNATGTG TTANNTAGGA AATGTNATAA ANCN 414

(2) INFORMATION FOR SEQ ID NO: 5475:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 112
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06514

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5475:

GATCAACAAT NAGCATCAAA TCTATGGCTC CTGGCTCCAG CANCAAGACG CAAGAAGACA 60  
GGANGAGAAG CANGAAGTGA GACTGGAGGG AAAGGGAGCT GAGTCTNCTA GN 112

(2) INFORMATION FOR SEQ ID NO: 5476:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 52
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06515

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5476:

GATCATTCTT TTATAGAGCA TATTTGCCAA TAAAGCTTTT GGAAGCCGGA AA 52

(2) INFORMATION FOR SEQ ID NO: 5477:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 223
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06516

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5477:

GATCTAACTT TGCACTCTTT GATAATAATG TTTTAGATAA TGTGCGTAAT CCAAATTGGT 60  
ATTGTAGCCT CTGTTAACAC AGACAGTATA TGTTTTAAAC TTTGATGTAA ACCTTTTNAG 120  
ACCCAACTT GTGGAAGTAT CATGTGTTAA GTNCTCTGTC TCTGTTTCTT TGTTCAATTA 180  
TTACTAAAT GAACTTGTTA TTAAAGTATA TGCAAATNTG AAA 223

(2) INFORMATION FOR SEQ ID NO: 5478:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 144
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06517

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5478:

GATCCGGGGN AGCTGTATCC CCAGTAGAAA AAACATTTTA ATCACTCTAA TATAACTCTG 60  
GATGAAACAC ACCTTTTTTT TTAATAAGAA AAGAGAATTA ACTNCTTCAG AAATAACTAA 120  
TAAATGAAAA ACCTTTAAAG GAAA 144

(2) INFORMATION FOR SEQ ID NO: 5479:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 117  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06518

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5479:

GATCTTTTGA CGNNTATANA AATGTACTAA TGTNATAAGT TAATGCTGGN CATTTCATT 60  
ATATATATTT TTAAGAGGCT AGAGGCTTTT AGCTTTTAA AACTCCATTA TATACAN 117

(2) INFORMATION FOR SEQ ID NO: 5480:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 168  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06519

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5480:

GATCTTTTCAT TCTCATGCAG ATATTTCTAT TGTGGGCTTA TACATTGNT CACCTATTGT 60  
TGATGGNACT TGNGACTTTC CATTTTGGCG CTATTACAAN TAGGCACTAT GAATGACTGA 120  
TGNACCACTT ACTTGAGCTT TATGNCTTAT TNTCAAAGCN GCAAAATN 168

(2) INFORMATION FOR SEQ ID NO: 5481:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 395  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06520

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5481:

GATCAGTTAT GAAGAAGGGA AAGCTTTGGC AGAATCTTGG AATGCAGCTT TTTTGAATC 60  
TNCTGCTAAA GAAAATCAGA CTGCTGTGGA TGTTTTTCGA AGGATAATTT NGGAGGCAGA 120  
AAAAATGGAC GGGGCAGCTT CACAAGGCAA GTCTTCATGC TCGGTGATGT GATTCTNCTG 180  
CAAANCCTGA GGACACTGGG AATATATTCT ACCTGAAGAA GCAAGCTGCC CGTCCTCCTT 240  
GAGGATAACC TATGCTNCTT TTTNCTCCTG TTAACCTGNA AGATATCATT GGGNTCAGAG 300  
CTCCCTNCCT TCAGATTATG TTACCTCTGA GTCTGTCCAA TGAGTCACTT CCATTTCAAA 360  
TTNNNNGCAT CNNTTTCAN TGTGTATGTN GNATN 395

## (2) INFORMATION FOR SEQ ID NO: 5482:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 89
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06521

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5482:

GATCTTCCAG AGAAGGGAAC ATCTGTCACA GACAATGACT GTATCTGTNT AGATATTTCT 60  
TATTTAATAA AGACGATTG TCAGTTAAA 89

## (2) INFORMATION FOR SEQ ID NO: 5483:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 137
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06522

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5483:

GATCAGAAAT GCCTCCTTTA CCTACCAGAG CCTACAACAC TACCTGCCAC TAATAGTTAT 60  
GTCACCCTCT TATTAATCAT CATCTAGCCC TAAGTCTGGN CTATNAGTGA CTACAAAAGA 120  
TTAGCTGAGT GAATAAA 137

## (2) INFORMATION FOR SEQ ID NO: 5484:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 250
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06523

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5484:

GATCAGGGGA AGAATACCAA CCTGCATAAG TGTACTAANT CTACGTCTGG TTAATGTATG 60  
TACTCTCCTG GACTGAATGC AGTGTATAAT TCCTGTCTAC ANTAGAAGTG TGCCCCAGTT 120  
CCACATTTGA TTACACATGT GAGATTTGCT GCTGTTGCAT ATAACACTAG GNTAATAGNT 180  
TTGNATNCAT GCAGTCATAA AAATTGGAAT GAGAATTAAN CTGCAGGAAC ATTTGNACGN 240  
TNTCTNCNCN 250

## (2) INFORMATION FOR SEQ ID NO: 5485:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 117
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06524

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5485:

GATCAGAACC AGAAAGAACT NTGCTTNACC GAGAAAATAT CTAAACATCG AAAAACTTAA 60  
 ATATTATGGA AAAAAAACAT TGCAAAATAT AAAGTAANTA AAAAAAGGAA GGANCNN 117

## (2) INFORMATION FOR SEQ ID NO: 5486:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 118  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06525

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5486:

GATCTAATGC AGGATGTCAG ACTTNTNTCT ATCCAGGAAT AAAACCAGTT ATGCCAGAAG 60  
 TAACTATTAT NCACCTNTCT CCTACTGAAT TAAATACTA TCAGTTGTAT ATNAAATN 118

## (2) INFORMATION FOR SEQ ID NO: 5487:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 118  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06526

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5487:

GATCACAGTT TTCAGCANNT CAGACATGGT CTTGNGTAGT TGTTCAACAG TGTTTGCCAG 60  
 CTACAGAGGA AANGNCAGAC TCACAGAAGG GTGTCATTTA GAAGAAAGAA CACTAATN 118

## (2) INFORMATION FOR SEQ ID NO: 5488:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 120  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06527

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5488:

GATCCTCAAC GAAATCAATC TCACAATAGG NAAGGAAAAG NCAATACAAG GAAGAAACCA 60  
 TTGAGAAGAT GCAGAATAAA GTAATCTTAT ATACANGCTT TGATTAAAC TTGAAACAAA 120

## (2) INFORMATION FOR SEQ ID NO: 5489:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 111  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06528  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5489:  
 GATCGCCATC ANTTGGGTTAG TGACAGNGTA TTAATTGCT TATACANTTN CTTTACTNTC 60  
 CTTTTTTCCT TTCTGGAGCA TCACATGCTG GTGCTGTGTC TTTATAATGT N 111

(2) INFORMATION FOR SEQ ID NO: 5490:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 422  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06529  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5490:  
 GATCCTACAG ATACAAGTTG CTAAANGGGC ATATCAACAG TCCAACAAAT AAAGAAGATG 60  
 CCTGGATTGA GCATGATGTT TGGAGATGGA GATTATGTG TCTCTGGGAT TGTGGGTTGG 120  
 ANTACTGGTC TGTGGCTGTN ACANCTATTC CTCTGTGAGT GACTCTTGCA TGGAGAGATT 180  
 CATATATTCA GGCAGCTAGG ATTGTTCTT CTACTGGGAC ATACACGATT GANTTTNCTG 240  
 AATANGGGTA GTTAANCATT GTATGTTACN CNCACCTTTG TGCTTTTCCT CCATTGTGCC 300  
 NTATTAACGC TCTTTCGCNT CTGNGAGAGT CTGAGTTAGC TGGTGGAGCG CCAAATACAA 360  
 CTGTTTGTCC GTGTGTNCTT TCCCTTTGTC ANTGGTTTGC CACATCAGTT TGTGNTGTAT 420  
 GN 422

(2) INFORMATION FOR SEQ ID NO: 5491:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 192  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06530  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5491:  
 GATCCCCCAG ATACCAGCTC TTCTGGNTAT ACACAGACCA GCTATAATTN GCTAAGCATA 60  
 AANTATTNCA GTGTATTAGC CAGCNGTGGC TCCAGAGTCT GTGCCCTTGA CCACCGTGCC 120  
 CAACTGTTTC ACATGCTGTG TTTGGTAGTT TNNCCTAGTG CTCTCCTTAA TAATGGTGGT 180  
 GTNTAGCAAA NN 192

(2) INFORMATION FOR SEQ ID NO: 5492:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 108  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06531  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5492:  
 GATCATTAGG TCAGAGTTTA CACGNCCTCT CGTCACTAGA ATCCACCCAG CCCACGAATC 60  
 ATCACCCNCT TGAAGGACAT TATTACTACT GNAANTTNGA ACAAACNTN 108

(2) INFORMATION FOR SEQ ID NO: 5493:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 329  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06532

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5493:  
 GATCCATCCA GAACAGCGGT ATCTGAAGCC CAGGCCATAC TCCCTGCCTC CTTNCTTCTG 60  
 CCTACCAGAG GCTCCANAGT TGAGCTTGTC CNTTATCTAG AAACATGTGA AGATGCCCAA 120  
 GAGCCTGGAG GCACTGCTGT CCTTCCTNCA GAAACAGTTT CTCCTCTNC CCTCAGCCTT 180  
 GTGGCCANTT CCNCTTCACA TGAAGCCCTT TGGCATTNCA TNGGGAAGGG ACTNGCCTGG 240  
 TACTTGCTGT TAGGGCAGGA AGGGGCAAAN GGNNGACTTT GGGTAAGTAA TCTGGGGGGT 300  
 TTAGATGGGN AGCANTAAGC CAGCTNNGN 329

(2) INFORMATION FOR SEQ ID NO: 5494:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 125  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06533

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5494:  
 GATCATGCTT GTNTNAGGCA ATCATGGTGG CATCACCCAT AAAGGGAACA CATTTAACCT 60  
 TTTTNTCTCA TATTTTAAAT TACTACANGA TTATTAAAGA TAAATNATT TGAAAACTC 120  
 TTAAT 125

(2) INFORMATION FOR SEQ ID NO: 5495:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 337  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06536

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5495:  
 GATCATGAGA CTGAAATTGG TCAGAATTGT GTCCAGAATG TGCTCAGCTA ATTCAGTATT 60  
 CTTCCCCATT CTGGGTTGGA GTTTACTGCA GAGTAATTCT TACAGTGCTG ATGTCAAGAC 120  
 TGTTACTGTT CTTGACTTTT GATTCTTGC TCATGACATG AGTAGGGTGT GCTCTTCTGT 180  
 CACTTCACAC AGACCTTTT CTTTTTTAG CTGCAAGTCA AGGACTAGGT TGATGATGCN 240  
 CATGACCTGT AATTGTAAAG ANGCTTGGNC ATCTGCAAAT GATATTNAGA CCATCTNNGC 300  
 TTGTGCTTNN ATTCAAACCTA ATGTGAACCA ATANGTN 337

## (2) INFORMATION FOR SEQ ID NO: 5496:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 194
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06537

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5496:

```
GATCCATGAT GATAATTAAG AGAAGAGAAA AAAAGATATT ATTTTGTNA GGACAAACCA 60
TTGTAGGTTT TTAGCAATGT GTATCTGTGT GTCCCTCACA CCTTTTCCTA TTCTACTTTT 120
TTTTCTTTT TTTAAAAATA TTATGTACTA TATTTTNAGT CTCAAACACA CTATATATTA 180
TATATNTNNN NNNN 194
```

## (2) INFORMATION FOR SEQ ID NO: 5497:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 207
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06538

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5497:

```
GATCATTTCT AGGCAAAATT GTGAAGCTAA TGACCAACCT GTTCTACCT ATATGCAGTC 60
TCTTTATTTN ACTAGAAATG GGAATCATGG CCTCTTGAAG AGAAAAAAGT NACCATTCTG 120
CATTTAGCTG TTTTCATATA TTGCATNTCT GTATTTTTTG TTTGGATTGT AAAAAGTTCA 180
CATAATAAAC GATGGTTGTG ATGTAAA 207
```

## (2) INFORMATION FOR SEQ ID NO: 5498:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 320
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06539

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5498:

```
GATCCAAGTG ACCAAAGGAG TTCAAGGCC AAAATTTAGT TATGCTGGAT TAATTCTGAG 60
AGTAACAAGC ACATAGATTA TAATCTAAGA AAACCCTTT TAGCTATGCA TNGTCGGGAG 120
AGCATCTAAC ACTAATGGTG ATGTTTCCCA TGCAGAGACT CAGATTACAG TGACTCTTCC 180
AGTGAAGACA GATGAAAGCC ATTGGGCATT GTNCCTTTNT TAATCCAAGC TAAACTANCC 240
AAGGATATAG GGGTGTGTAT GTGTCTGNGT GTGTGTGTTT GTNTGTGTGT GCACATACAT 300
NTNTAGGTAT GGTGTGTGGN 320
```

## (2) INFORMATION FOR SEQ ID NO: 5499:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 115



(B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06540  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5499:  
 GATCTGTCTT GGTCGTTTGT GTTATAAAAC CAAAGTTCTC TACAGACTTT ATTTTGTAC 60  
 AATATCATTT TGTAACTTT TACAAATAAA AACTCATTTT TATTGCTCTC TGAAA 115

(2) INFORMATION FOR SEQ ID NO: 5500:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 314  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06541  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5500:  
 GATCACTTAC GGAGAAACAG GAGGAAATAG CCCTGTCCAG GAGTTCAC TG CCTGGGTG 60  
 CAAGTCTACA GCTACCATCA GCGGCCTTAA ACCTGGAGTT GATTATACCA NNACTGTGTA 120  
 TGCTGTCACT GGCCGTGGAG ACAGCCCCGN AAGCAGCAAG CCAATTTCCA TTAATTACCG 180  
 AACAGAAATT GACAAACCAT CCCAGATGCA AGTGACCGNT GTTCAGGGNA GCAGCATTAG 240  
 TGTCAAGTGG CTGCCTTCAA GTTCCCCTGT TACTGGTTAC AGNGTANCCN NCGCTCCCNA 300  
 AANTGGGCCA GGAN 314

(2) INFORMATION FOR SEQ ID NO: 5501:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 312  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06542  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5501:  
 GATCTGGGTT TAGAGTGTGT ATGATTAATA AATATACCTT TCCTCTTTTC AGGGAAAATA 60  
 ACAACCACCC NTACTGATAG TTGGGAAAAG AAGATTGGGT TATTTTNCCA TATCATTTAG 120  
 CTGGAAGTGA CATTTAAAAG CACCCTGCAT CACTAGTAAT AGTGTATTTN NCTATTCTGC 180  
 CCTTGTAATC GGTGTCCCTG TAAAACANTC CCCACAGATT ACTTTCAGAA ATAGATGTAT 240  
 TTCTCTNCGT AAGGGCCAGG TTTATTTCTT CCTTTTTTGN GATNNNNGGN GGAAANTGCT 300  
 GCTTGACAT TN 312

(2) INFORMATION FOR SEQ ID NO: 5502:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 217  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06544

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5502:

```
GATCATCCTG TAAACATTTT ATCATGTATT AATCATCCCT GCCTGTGTCT ATTATTATAT 60
TCANATCTCT ACGCTGGAAA CTTTCTGCCT CAATGTTTAC TGTGCCTTTN NTTTNGCTAG 120
TATGTGTTGT TGAAAAAAAA AACATTCTCT GCCTGNGTTT TAATTTTGGT CCAANGTTAT 180
TTNAATCTNG TACAATTAAA AGCTTTTGCC TATCAAA 217
```

(2) INFORMATION FOR SEQ ID NO: 5503:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 334  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06545

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5503:

```
GATCAGGTTG AATGAATGGA ACTCTTCCTG TCTGGCCTCC AAAGCAGCCT AGAAGCTGAG 60
GGGCTGTNTT TGAGGGGACC TCCACCCTGG GGAAGTCCGA GGGGCTGGGC NAAGGGTTTC 120
TGACGCCCAG CCTGGAGCAG GGGGGCCCTG GCCACCCCTT GTTGCTCACA CATTGTCTGG 180
CAGCCTGTGT CCACANTATT CGTCAGTCCT CGACAGGGAG CCTGGGCTCC GTCCTGCTTT 240
AGGGAGGCTC TGGNAGGAGG TCCTCTCCCN NATCCCTCCA TCTTGGGGCT CCNCCAACCT 300
NTGCACAGCT CTGCGGGNGC TGAGATATNA ATTN 334
```

(2) INFORMATION FOR SEQ ID NO: 5504:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 87  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06546

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5504:

```
GATCTTTTAA AGGTTTTNAC CATTTTGTNA TGAGGAATTA TACATGTATC ACATTCACTA 60
TATTAAAATT GCACTTTTAT TTTNAAA 87
```

(2) INFORMATION FOR SEQ ID NO: 5505:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 323  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06547

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5505:

```
GATCCATCCC ATGATTTGTN CCTGTCTGAG GCATAGAGGC AGGCAAGCCG TGGATTTTNC 60
ACATGGTGAC TTTCCCACTG TGCCATGATA CAGTGTGCAT CTTATAGCAG TGCCTTTNTG 120
```

TCAGGGTCTC TGCTGGCAGT CTAGACCTTT TGGGCAGAAA GGAGCTTCAA ATGGCTGTGA 180  
 TAAGGAATAT TAAAAATNGT GTTTCTACTT TAATTGTATT GGCTGTTTAT GTATGTAGGA 240  
 GTTAAATAG GCCAACTGG AGAAATAAGC GCATTCTGTC CACCANAAAN GTGGNTTGGN 300  
 TGGTNNNTGT NNGNTTNGGN GGN 323

(2) INFORMATION FOR SEQ ID NO: 5506:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 90
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06548

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5506:

GATCAAGTTG CCATGAAAAA CCATCTACTA TATGTNAGAC ATGACATTCT NTTTCTCTCC 60  
 TTCCTGAAAA ATAAAGTGTG GGAAGAGAAA 90

(2) INFORMATION FOR SEQ ID NO: 5507:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 102
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06549

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5507:

GATCTTACTT TCTTGCTGCT TTTCCAATA TAATCATTTT GCTCTTGCTT TAACAAAAGN 60  
 NGNGGCACAG NAATTTAGTA AATTTGTGTA ATAACATTTA AA 102

(2) INFORMATION FOR SEQ ID NO: 5508:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 64
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06550

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5508:

GATCTCACCA CTGCACTATA GCCTGGGCGA CAGAGCAAGA CTCCCCTCC AAAAAANGGA 60  
 GAAA 64

(2) INFORMATION FOR SEQ ID NO: 5509:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 360
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06551

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5509:

```
GATCCACAAA TCGCTAGGAA TGTGTATACT CTGGGTAGTA AGTTTGTAGT ATTAGAAGGT 60
TTAATGACAA GTATTTGAAG AGCTGAAGTT AAGTGTTGGG AGGCCATCCC TTATGAAGGA 120
CAATGAATGG CAAGTAAAAG ACCAAGTTCT GTTCCTGGGT CCATTAATTT AGTAAAAANG 180
GCAAAGTTCT TTCAGCACAC ATATCTGCAT GCAGTCACGT GCTGCCTAAG GNTGCTTCAT 240
TCAACANTGA GCCTCACAGC CGTGCTACAC ANTAGGATAN TACTGTATTT TTNCTGTACC 300
TTTTAACATT GTGTTACAAT GGCCTACAAG AGGCTTGTGT GGNTGGCTTT NNNTGTGGGN 360
```

(2) INFORMATION FOR SEQ ID NO: 5510:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 357  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06552

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5510:

```
GATCATCCTC ATTAGCACAC AGATTTTNA AATCAATTC TCTNGCCATG CCTCCTATGT 60
GTTACATCT CTGCATACAC TACAGATATA AGTGATAAT CATTATATA NACATCTGGT 120
AGGTATTCTG TAAACTGTG TTTACTTTAG TGCATGTNAT TGTCATGTNA TGATGTGACT 180
GGGGTGTTTC TTTGTGCATG AAACCTTGCT TCTNCACAGA NTTAGATTAC TGCTCTCTCT 240
ATATNGANCT NCATATACAG CGTTTTCTTG TTATCAGCCC CCCNAAGTCT GGGATGCCCC 300
GTGGTTGGTG NTGACATGTG AGTGGTGNC TGGGNGGTCT GNTNCACATA GGGGCNN 357
```

(2) INFORMATION FOR SEQ ID NO: 5511:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 138  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06553

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5511:

```
GATCTTTTCA GCTGCTATTT TGGAATAATG ACTATCATAT ATCATAACAG TGACTGATGT 60
TGGTTGTAAT GGTGGGTTT AGGATGAACC ATTTTAAGGA TGCCAAATNA AATATTAGTA 120
TTTGTACACA GTAAGAAA 138
```

(2) INFORMATION FOR SEQ ID NO: 5512:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 167  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06555

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5512:

GATCCCAGCA GGGNTTCTGC TCTGGGGCTG GCAGGTTGCC TGGTATTATG CCCAAGGNCG 60  
 NTCTGCCTGG GGGAAAGGGC AGCCAGGCAG AGGCCAGTG TCTAGTAGGC NGCTGAATTT 120  
 CCTGGAAGGG GTGATTGGTT GGAAAGNGGN CAGNAACCCC AGCCTNN 167

## (2) INFORMATION FOR SEQ ID NO: 5513:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 159
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06556

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5513:

GATCCCTTGG AGCACCTTNA TGCCTGGGGT TTCTCTCCCT AAAGCTTCTT GCAGTCTAAG 60  
 CCTTATCCCT TATGTNCCCC ATTAAAGGAA TTTCAAAAGA CATGGAGAAA NTTGGGAAGG 120  
 TTTGTNCTGA CTGCTGGNNG CAGAATAGCC GTGGNAGGN 159

## (2) INFORMATION FOR SEQ ID NO: 5514:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 167
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06557

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5514:

GATCTGGACA AATGGCAAAT AATTTGGGGT TGAATTATGG CCCAGAGAAG TAAGCAAATG 60  
 NAAAACATAA CANTTATAAA TGTATCTGGG AAGCAAAGGT ATTCATANTA NGTCCCATGG 120  
 CCAGCTGCGA GCAGTATTTA ACTAGACATG CTGTTGTCAA TANNNNN 167

## (2) INFORMATION FOR SEQ ID NO: 5515:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 97
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06558

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5515:

GATCGTCCCC CTTTNTGGGC TGGAAAAGCA GGTGAGGNTG GGGTGGGCTG AGGCCATTNC 60  
 CGCCACTATC TGTTTAATAA AATCCGTGAG CACGAAA 97

## (2) INFORMATION FOR SEQ ID NO: 5516:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 225
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single

(D) TOPOLOGY: linear  
(vii) IMMEDIATE SOURCE:  
(B) CLONE: HUMGS06559  
(ix) FEATURE:  
(D) OTHER INFORMATION: "N"=unidentified base  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5516:  
GATCCTCCGG AAGTAGTCTC TNCCCTCGGC AGCGGAAATA CTGATTCCCA CTGCTCCTNC 60  
CTCTAGGGTG CAGTGTCCGT ACCTNCTGGA GCTGGNCCCT CCTTCCCAN CCCAGACATT 120  
GAGAAACTTG GGAAGAAGAG AGAAACCTNA AGCTCCCAA CAGCACGTTG CGGGAAAGAG 180  
GAAGNGAGAG TNTGAGTNTG TGTGTGTNTT TTTCTATTG ANCAN 225

(2) INFORMATION FOR SEQ ID NO: 5517:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 340  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear  
(vii) IMMEDIATE SOURCE:  
(B) CLONE: HUMGS06560  
(ix) FEATURE:  
(D) OTHER INFORMATION: "N"=unidentified base  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5517:  
GATCATTAAAT AAAGCTTTTC TTGGTTCCTT CAGTGGTGTT GGTAGTAAAA TGGAAGGNGT 60  
CTTGCTGCAG GTAACATAATG AAGANGTGGT CAACCACAGA GTCTTCAAGA AATAAGAAAT 120  
TCTGTACCAN CTGAAAGTAG TGCTTGTTGG TGCCTTCNTT TAAAAAGCAC TCTTTTAAAT 180  
AAAAGGGAAA TGTTTTCTGA TAAACCAAAC ATTTAGTTGA GGTTCTTGAT ATAAACATT 240  
TACAANNTGA GTGTTGTNTG TAAAGCAGTA GCCNTCATT TGGCTAGNG AGNTAAATGN 300  
GTCANGTTTT ANCTAGGTTT TNGTGAGTNG NCAGGTTTNN 340

(2) INFORMATION FOR SEQ ID NO: 5518:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 330  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear  
(vii) IMMEDIATE SOURCE:  
(B) CLONE: HUMGS06561  
(ix) FEATURE:  
(D) OTHER INFORMATION: "N"=unidentified base  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5518:  
GATCAAAGCC AGTNTTAAAT GGGAGACCGA GCGAGCGCGG CAAGTGCTGG AACACCTGCT 60  
GAAGGAAGGG TTGGCGTGGC TGGACTTACA GGCCCCAGGG GAGGCCCACT ACTGGCTGCC 120  
AGCTCTCTTC ACTGACCTCT ACTCCAGGA GATTACAGCT GAGGAGGCCA GAGAAGCCCT 180  
CCCCTGACTG CATGTGGAAG GGCACACAGC AGCAGGCAGG GAGGAGGCGG AGGTGGCAAA 240  
TAAACCTGGG CAATTTTGTT TATACAAAAA ATAGAAGAAA AGTTCCAAGT TTTTCTTTCT 300  
TCCCTCATTC TTTTNTTTTT GAAAAAAGAN 330

(2) INFORMATION FOR SEQ ID NO: 5519:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 111  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear  
(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06563

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5519:

```
GATCTCATGA TGATTCANAC CACAGNCTGG GNTAAAGATG TCTTGACCTC TGAGGCTAGC 60
ATAACATATA TNAGAATACA NCTTGCCTAT TTCCAGAAAA TCTGTATATT N 111
```

(2) INFORMATION FOR SEQ ID NO: 5520:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 130

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06564

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5520:

```
GATCAGCTTA CTGAAAAGAA GCCTCCNNAG TATTCCAAAT ACAGATTACA TCCAGCTGCT 60
TAGTGAAATT GCCAAGGNAC AAGGNTTTAA TATAACATAT TTGGATATAG NTGAACTGAG 120
CGNCAATGGN 130
```

(2) INFORMATION FOR SEQ ID NO: 5521:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 113

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06565

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5521:

```
GATCNACAAT NTGAATATGT GTTACTTAAT AAGGCTAGGC TGGCCATCAG TNGCTTANTT 60
CAGATGTGTC ACTAAATTTT CCNTCTAGAT GGTCTTGAG CAAAACCTAA TAN 113
```

(2) INFORMATION FOR SEQ ID NO: 5522:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 271

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06566

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5522:

```
GATCATCACA GTTTGAGTTT GACCCCAATG CCAGGATGGT GACACACATA TTAAAGAGTA 60
ACAGCTGGTT ACATTGCTAG GCGAGATAGG GGGAAGACAG ATATGGGTGT TTTTAATAAA 120
TCTAATAATN ATNCATCTAA TGTATTATGA GCCAAAATGG NTAATTTTTC CTGCATGTTC 180
TGTGNNTGTN GAAGATGAGC CTTGCAGATA TCTGCATGTG TCATGNNGAA TGNTTCTGGA 240
ATNCTTNACT TGCTNTTGGA NTTGCACTGG N 271
```

(2) INFORMATION FOR SEQ ID NO: 5523:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 126  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06567  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5523:  
 GATCTCACTT TCCCCTTGTG GGGTAGGAAC CGATGCCAGT GGGAGGGATG TGCCCTGAC 60  
 CATTAACGAC TGTTTTTTTT TTTTTTTTAA AAAAAATGGN GTTNTTGGGN GGGGNAATNC 120  
 ACANAN 126

(2) INFORMATION FOR SEQ ID NO: 5524:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 156  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06569  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5524:  
 GATCACGGGA ATGCTGCTGG AGATAGACAA CTCTNAGTTG CTGCACATNT TAGAGTCCCC 60  
 CGAGTCTCTC CGCTCCAAGG TGGATGAAGC TGTCAGCAGT CTACAGGCTC NTCATGCCAA 120  
 GAAAGAAGCT GCCCAGAAGG TGGGCGCTGT TNNNNN 156

(2) INFORMATION FOR SEQ ID NO: 5525:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 133  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06571  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5525:  
 GATCCTTCTA GACCAAGGAC CCATTGTTAA AAGCATGGAT TCTGCCTGAN TTA CTTCCT 60  
 TTTGAGAAAT CATATCTCAA ATACATAACC TGGTAATATA ACTGAAAAAA TAAAAGTGAT 120  
 TGCTCCTTCC AAA 133

(2) INFORMATION FOR SEQ ID NO: 5526:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 156  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06572  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base



(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5526:  
 GATCCCTGCT TCATAGATTT GCATCATTTCA AGCATATCTT GTAAAAACAAA CACATATTAT 60  
 GGGACTAGGA AATATTTATC TTTCCAAATT TGCCATAACA GATTTAGGTT GCTTNCCTTN 120  
 CTTTGAAGGA AAGTTTAATT ACATTGCTCT NNNNNN 156

(2) INFORMATION FOR SEQ ID NO: 5527:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 63
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06573

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5527:  
 GATCCTAGCT GCAGATTGCA TCCCACAATG CGAGAATAAT AAAATAAAAT TNGATATTNG 60  
 AAA 63

(2) INFORMATION FOR SEQ ID NO: 5528:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 207
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06574

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5528:  
 GATCNATGGT GTGACTCAAG CTCNCCTTA CCCAGGGGGG GTAAGGGCAG GCCTCTAGCT 60  
 ACTTGAGATT GTCTGTAATA ATCTNGAAAG GCCCAAGGGC CTGTGCCCCAT CCTGACTNAA 120  
 AGGNATCTCC TTCCCTGTTT CATATCACAT GACAGAGAAA CCTGTTCTCA TGGCATGNAA 180  
 CATCCCTGTN AAGAGAGCGT TGNCNNN 207

(2) INFORMATION FOR SEQ ID NO: 5529:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 190
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06576

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5529:  
 GATCTTGCAC ATGAAGCTAC AAAACTGGTA AGAAACAAAT GGCACATGTG NTGGGAATGG 60  
 AAGTCAACCT TTTTGAATTT TTCAAATGTA AGTCAGTCTG GAAAAATCCCA GTAAATTGGT 120  
 ATATTTGTTT TGGGTTATTT TTGAAGACCT CTTTAAAAAT TTGCCTAAAA TAAATNCTCG 180  
 GTATGCTAAA 190

(2) INFORMATION FOR SEQ ID NO: 5530:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 341

(B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06577  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5530:  
 GATCCGCCGC CAGAAAGGTT ATGCATCATG TGCCACAGCC TCCAAGGTGC CCATCATGGA 60  
 ATNTCGTGGG GGCTGTGGGC CNANTGCTGC CAGCCCACCC GCAGCAAGCG NCGGAAATAC 120  
 GTCTTCCAGT GCACGGNTGG CTCCTCGTTT GTAGAAGAGG TGGAGAGACA CTTAGAGTGC 180  
 GGCTGCCTCG CGTGTTCCTA AGCCCCTGCC CGCCTGCNTG CCACCTCTNG GACTCCAGCT 240  
 TGATGGAGTT GGGACAGCCA TGTGGGACCC CCTGGTGATT CAGCATGAAG GANATGAAGC 300  
 TGGAGANGAA GGTAAAGGAG GAAGAGANTA TTANGTATTT N 341

## (2) INFORMATION FOR SEQ ID NO: 5531:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 144  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06578  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5531:  
 GATCTNTTCC AACAGTTCTN TGTAACCAA ATGCTATTTT TCANTGCATT TGGACTGCTG 60  
 ACCATTTAAA AGCAGCCTAT GATTGCTTCT TTTTGTAAG CAAGCAACCN GCCTCCACTT 120  
 TAGCTGTTTT NACTATTNGA TNTN 144

## (2) INFORMATION FOR SEQ ID NO: 5532:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 224  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06579  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5532:  
 GATCCTAAAA CGAAGAGAAT TTTGACTCTC CAGAAAGCTA ATAGCTGGTT CAACTGCAGG 60  
 AAAAATTGAA CATTACTAAT TTGAATGGAA AACACATGGT GTGAGTCCAA NGGAGGTGTT 120  
 TTCCTGAAGA NCTGTCTATT TCCTCAGTCA TTTTAAACCT CTAGAGTCAC TGATACACAG 180  
 AATATAATCT TATTTATACC TCAAANNAN TNANANGGGG NNNN 224

## (2) INFORMATION FOR SEQ ID NO: 5533:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 345  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06580

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5533:

```

GATCTNCCTC NACACCTNGG GCAAAGTCTA TGCGAAGATG GTTCTTAGC TCTCCATTG 60
CCATGATTTT CCTCCCATT C ATCATGAGGG AGTTTCTCAA ACCAGGAGT NATATTTATT 120
TNTNAGAAAA TACACACTTT TCAGGAGAAA CCTGAGCATG ATTTTGGATT CTCCACCTCC 180
CCCCAGTCTC GGNNNCTGGG ATTCAGCTCA AGGNTTCAGT GTCTTCATTT TTACAAAAGT 240
TCCCCCAAGA AATCAGCAAC CAGCCTCTGT TTCATCTGGG AGCCCCTCCC TNGGNCCCCT 300
GGGTTTTGGG GGGTGCTGNC CTACTGGGGG AACAGCGGGG GGTGN 345

```

## (2) INFORMATION FOR SEQ ID NO: 5534:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 179  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06581

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5534:

```

GATCATNTTG GAACCAGACA AGAATCCAAA GAAAATAAGA ACACAGACCA CCAGTGCAAA 60
ACAAGAAAAA GCACCAAGTA AAAAGCCAGT GAAAAGAAGA AAAAAAGA GAGCTGCCAN 120
TTAAAGCTAA CAGTTGTATA TCTGTATATA TAACTATTAA AAGGGATATT TATTCCAAA 179

```

## (2) INFORMATION FOR SEQ ID NO: 5535:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 287  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06582

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5535:

```

GATCAAAGTT AAGNTTATAT CCTGTTTGTA GTATCAGATA TTTCTGTG TACAATTATA 60
GGATTGTAAT CTACACTGGA ATTTNAGGC AGTAAGTCAC CACAAAATGT TTTAGATAAG 120
ACACAATAAA ATTATTATAA ATAAAAGCTT AATGTTTGTA AAAANTCTCT TTTTGTAGTAT 180
TTCTTTTTTC ACATGNAAGN NGTGGTGGCT GCTAAANAAA NAGCTACAGT GTTTATTANG 240
GGTCGTTTTG ATTTNTGTNA NTCTTTGTAA ATTGGTCAGT GCCTGTN 287

```

## (2) INFORMATION FOR SEQ ID NO: 5536:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 258  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06583

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5536:

```

GATCCCAGAG GCTCTCCTCA CCTCANCTGA GCTCCTTTAA AAGTAATTCA AGGGACTATG 60

```

TCACTCAGCC TCATTTNCTG GACCAAATCT GGAGGGAGAA CCCCTAAAAC CCCTAAGTAA 120  
 GGTGCCCCAG GGGGTGTCC CCAGGTGGGG GGAAGCAGGG GAGAGAAAAT GGTAGCCATT 180  
 TTAACATTGT TTTGTATAGT ATTTATTGAT TCAGGAAACA AACACAAAAT TCTGAATAAA 240  
 ATGACTTGGA AACTGAAA 258

(2) INFORMATION FOR SEQ ID NO: 5537:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 248  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06584

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5537:

GATCGCTTGA GGCCAGTTCA AGACCAGCCT GGCCAACATG GCGAAACCCG TCTCCACTAA 60  
 AAATACAAAA CTTAGCCAGG CGTGGTGGCG CGCGCCTGTA ATCCCAGCTA NTCGGGAGGC 120  
 TGAGGCAGGN GAATCGCTTG AACCCGGGAG GTGGAGGTTA CAGTGAGCCA AGATTGCACC 180  
 ACTGCACTCC GGCCTGGGCA NCATNGCGAG ACTCTGTCTC AGNNAGGAGG GGGGGGTTNN 240  
 NNTANTNN 248

(2) INFORMATION FOR SEQ ID NO: 5538:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 198  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06585

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5538:

GATCCTGAAA GAGGACAAAC TACATTGCCT TTTAGACCTN TGACTCAAGA AGAAGATGAT 60  
 GACCAAAGGT GATTTGTAAC TTAACATGCC TTNTCCTGAT NTTGAAGGAT TTGTGAAGGG 120  
 AAAAAAATTC TNGGCTCTTT GTATATAATA AAATGAGACT ANANGCATTC TNNAAAAAAA 180  
 AAAAGATTAA NTTTAGAN 198

(2) INFORMATION FOR SEQ ID NO: 5539:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 188  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06586

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5539:

GATCCCCACA CTTACTCTAC CCTCTNGGCA AATTGGCATT CCGGTGGTGG GTTTTGTNTC 60  
 CTTTAAACACA TTAAATAAAT NAGTATATAG GATGTGAGGG GAGGGGTGAG ANCAACTAGC 120  
 TGTAGCATGT NTAGGCTATA TACTTTACCA NTTGACTTCT TTCCTGTTTT TTTTTNAAAA 180  
 NAAAAAAN 188

## (2) INFORMATION FOR SEQ ID NO: 5540:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 138
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06587

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5540:

```
GATCTGGGTG TGCTCTATGG GGAGTNTGA CGTCAAANAG CAAATGTCTA TAAGGGGCCC 60
TTTTAAAATN AACATTTTCC TCATTGAGCA AGCNTGGATT CTCTAATGTA GAAATCAAGC 120
CATCTTNATA ATTNCACN 138
```

## (2) INFORMATION FOR SEQ ID NO: 5541:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 332
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06588

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5541:

```
GATCCTCCCA CCTCAGCCTG CTGAGTAGCT GGGTCTACAG GTGCACACCA CCATGCCTGG 60
CTAAAGGCAT GTCTGCATTT ATGCGAGGTG TGTTGACCGG GTGGGGAGGG AGCTAGGACT 120
GAGATTCGCC TGTNTAAAAT GCACAAAAAG GGTGTTGCTAA GCAAATTGAT ATTTGAACTA 180
AAAGATGGAT TAGGGTGAGA GACTTAGTTT ANTCAGGAAT AGTNGCAGAG NCANCCACAN 240
CAANAANTGN ATTTCCCTGN GACAGCCGTT TGTACGTACA GCAGGGNNCT GGTTTACAGN 300
TTTCACGGAG GGNNGNTAGG GTTCTTNTAC TN 332
```

## (2) INFORMATION FOR SEQ ID NO: 5542:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 106
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06590

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5542:

```
GATCAAATNA TTTGACTATT GCTAGACATT TCTATACTCT GTTGTAACAC TGAGGTATCT 60
CATTTGCCCA TGTTAATTTT TTTCTAAATA AATTGACAAA AACAAA 106
```

## (2) INFORMATION FOR SEQ ID NO: 5543:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 268
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06592

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5543:

```
GATCACAGCC TCCAGGGCCC CCCAAATCCC AGGGAAGGAC TTGGGAGAGA ATCATGCTGT 60
TGCATNTAGA NCTTTCTGCT TTGCACAGGA AAGAGTCACA CAATTAATCA ACATGTATAT 120
TTNCTCTATA CATAGAGCTC TATTTCTCTA CGGTTTTATA NAGGCCTTGG GGNTCCAACC 180
AGGCAGTAAG ANGTGCTTCT GAACCGCAAG GGGCGNACGA CTGGAAGTAA AATAGTTTGT 240
TTTTNCANT TCGNGGGNAG GGGNNGN 268
```

(2) INFORMATION FOR SEQ ID NO: 5544:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 177  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06593

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5544:

```
GATCCAATTA ACAAATTCTG CACTGTGGCA ACTNAACGAN ATTATGCTTT GGACAGCTTT 60
ATGTGTGAAT GTAAGAACAT ATTCTNAAGA AATGCTGTAA CTTTATCCCA TATANCTTCA 120
TANGAATTC TCTATAGGCT TGGNATTTGC AATAAAAATA GAGGATATGT TGGCAAA 177
```

(2) INFORMATION FOR SEQ ID NO: 5545:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 105  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06594

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5545:

```
GATCANACAG CCTACANCCA GCCCGAGTG TGCATCANGG TAAAAGAGCT GAGGGCTCTC 60
TNCAGGGAGC AGCCATTTA GGTCTCTGTN GTTGTGTGTA GGGAN 105
```

(2) INFORMATION FOR SEQ ID NO: 5546:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 149  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06595

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5546:

```
GATCATATNA GACGAGNAAG AGGAAGACCT AAAAGTGCAT CTGCCAAAAA ACATGAGGAA 60
GAAAGTGAGA AACAGGAAAA GGAAATTNAC ATCTATGCTA ACCTGTCTGA TGAAAAGNCT 120
TTCGTGTTTT CAGTCGCCTT NGCAGCNN 149
```

## (2) INFORMATION FOR SEQ ID NO: 5547:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 411
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06596

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5547:

```

GATCAGTGTG AGTCCTGAAG CACTTTNAGN GCTGTGNGAA CGACATCCAC TTTGGGTTTC 60
ATTCGTTTGT AAGCAGAGGA GCTGTCAGTC ACTCGTGCTT GTCGGTGGCC TCTGAGCCAT 120
GGTGTGAGT GAAGAGTAGT TCTTGTGTTT TACAACCTTT GTGAGTCAGC CATGCCCCGA 180
AAGCGTGCTG TGTGTTTAGTC CTGGTAGGAA TATTTATNAG AGTTCACACT ATGTAAAACC 240
CAACNGCTTC ANCTATTGCC CTTTCAACAG TTTTGCCACT GACCGGATAG AACCGGTTTC 300
AGTCTCTGGA TGGGTGTGTT TGGTGGGTTT GTAACCATTG ACGGGTTTAA ANCCATGGGT 360
TTNAAGATTT GGCCCAAATA ACCAGNAATT TTGTTCCGGG GAGGGGGTTN N 411

```

## (2) INFORMATION FOR SEQ ID NO: 5548:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 79
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06597

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5548:

```

GATCATAAAA GGCTATTATC TATNCTGGGG AACGATTATA ACTTAAATAA TTATTTTAAT 60
AAAAATACTA AGCTNNAAA 79

```

## (2) INFORMATION FOR SEQ ID NO: 5549:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 102
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06599

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5549:

```

GATCATCCTG CAAGTGCTCT NGTGCCTAGG ATTCATCTTT CTTTTCACCG TAGGCCCTGA 60
CTGGCATNTT ATTAGCAAAC TCATCACTAG TCGTNGTNCT NN 102

```

## (2) INFORMATION FOR SEQ ID NO: 5550:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 166
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06600  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5550:  
 GATCAAAACG ACGAAGAAAN GNCNCANAGA CTCAAATAAG GACAGAGTGA TTTCCAATAA 60  
 TGTTCAATAG ATTTAGGAGC AGAAATGCAA GGGGCTGCAT GACCTACCAG GACAGANCTT 120  
 TCCCAATTA CAGGGTGA CT CACAGCCGCA TTGGTGACTC ACNNNN 166

## (2) INFORMATION FOR SEQ ID NO: 5551:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 219  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06601  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5551:  
 GATCTCAGTT TCAAATCTCC CCAAGCTGCC TAAATTGAAA AAGCTTGAAC TCAGTGAAAA 60  
 TAGATTCTTT GGAGGTCTGG ACATGTTAGC TGAAAACTT CCAAATCTCN NACATCTAAN 120  
 CTTAAGTGGA AATAANCTGA AAGATATCAG CACCTTGGA CCTTTGAAAA AGTTAGANTG 180  
 TCTGANAAGC CTGGNCCTCT TTANNTGTGA GGTNNCCAN 219

## (2) INFORMATION FOR SEQ ID NO: 5552:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 104  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06602  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5552:  
 GATCTCTTNG CGACAGTACC AAGCACGGTT CTCTACACAG GTGACTNAAG TTGCCTCTGT 60  
 GTTGGCTGGC ATCCCTGAGT CCCCTNCGGG CTCCTATGGA NCNN 104

## (2) INFORMATION FOR SEQ ID NO: 5553:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 94  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06603  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5553:  
 GATCATCTGA GCCTCAGGAG GTTGAGGCTG NAGTGAGCTG TGA CTNCGCC ACTGNACTCC 60  
 AGTCTGGGAC AACAGAGCAA GACCCNGTCT TAAA 94

## (2) INFORMATION FOR SEQ ID NO: 5554:

(i) SEQUENCE CHARACTERISTICS:



(A) LENGTH: 78  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06604  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5554:  
 GATCTCCAGC TGCACAGGCC ACCGNCCCAG GCGTGGCCG CTGTTACAGA AACAATAAAC 60  
 CCTGATGGGC ATGGCAA 78

(2) INFORMATION FOR SEQ ID NO: 5555:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 191  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06605  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5555:  
 GATCGTAACA ATGCCAAGAA GACACAAGAA TATGAGAAAG GAATTCCTAG AAAAAAGGCA 60  
 AAGGTTTCAA TGACTAAGCT AATTTTNCCT AAGTCTACTG ATAACATACT CCCTACCCCA 120  
 TCCTCCATTA ATAAAAGANT GGTGTGTGTA TTGTATTATG AGGGAATTAA AAGTGTGATA 180  
 NGANANNNNN N 191

(2) INFORMATION FOR SEQ ID NO: 5556:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 102  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06606  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5556:  
 GATCGGAGAA TTGTGTAGGC GAATAGGAAA TATCATTCGG GCTTGATGTG GGGAGGGGTG 60  
 TTTAAGGGGT TGGCTAGGGT ATAATTGTCT GGGTCGCCTA AA 102

(2) INFORMATION FOR SEQ ID NO: 5557:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 135  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06607  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5557:  
 GATCTCACTT CTGTCAGATG CTCCCATCCA CTATNAATGC ACTAGGTGGG AGGAGAGGGC 60

GGCAATGACA CTGCACCTCT CCTTTCCAC CGCATTCCCT GGAGCTCCCT AAATAAAACT 120  
 TTTTTTAACG TGAAA . 135

(2) INFORMATION FOR SEQ ID NO: 5558:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 182
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06608

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5558:

GATCAAGTAA AAATGCAAAT CAATGATGCA AAGAAAACAG AAAAGAAAAA GAAGAAAAGA 60  
 CAGGATATTT CTGTTTATAA ATTAAAGCTG TAATATATTT NNANTATAAT GTAAATATTA 120  
 ATGTGTAAGC TTATATTGTG TCATTGTNCT GTTTATAAT AAAATNCTTG AGAACCTTCA 180  
 AA 182

(2) INFORMATION FOR SEQ ID NO: 5559:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 125
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06609

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5559:

GATCTTGACC TCACGGTGTA AGAAGGGAGA GGATGGTTTC TCTTCTGCCC TCTCCCATGG 60  
 TGCCCGTGCC TCTNTGCTGT GTATGTGAAC CACCCACGTG AGGGAATAAA CCTGGCACTA 120  
 GGAAA 125

(2) INFORMATION FOR SEQ ID NO: 5560:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 195
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06610

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5560:

GATCTTTTTTA GATACAATCC TTATTTAAAA AGGAGAAGAT AACTGAGGAT TTTAAAAAGA 60  
 AGCCATGGAA AACTTCCTA GTAAGCATCT ACTTCAGGCC AACAAGGTGA TATGAATATA 120  
 TAGTGTATAG AAGCGATTGA AGTTACAATG TTTTATGGCC TAAATTTATT AAATAAAATG 180  
 CACAAAACCTT TGAAA 195

(2) INFORMATION FOR SEQ ID NO: 5561:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 131
- (B) TYPE: nucleic acid

- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS06611
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5561:

```
GATCTTGTGC TCAACATGAT NCNTTAATAG AAGTTTTATN TTTCNGTGCA CTCTGCTAAT 60
CATGTGGGTG AGCCAGTGGA ACAGCGGGAG ACCTGTGCTA GTTTTACAGA TTTCTCCTA 120
AATNCGCGG N 131
```

(2) INFORMATION FOR SEQ ID NO: 5562:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 196
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS06612
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5562:

```
GATCTAATAG CTGAACATGAT TCAAACATGTA ATAAGCTCAT CAATTTTCANT TCTATGAAAA 60
TGTGCTCTGT TGTACACAGGA TGTTTCTGTT GGTTTTNTTC ATTTCTGTTG AATTGGTAAA 120
CATCATGTTT CNGATGATAA CCCAGTAGCA AAANCATTTG TNCTGTGTGG TACAAGCCTT 180
NGGGACTGNN AAANAN 196
```

(2) INFORMATION FOR SEQ ID NO: 5563:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 307
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS06613
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5563:

```
GATCCCATAA TATAAATCAT ATCCTTTATA TTTNAGAATA TCTCAAATGT ATTCCTTTTT 60
TGTATGGTGG GTTGCCTAG GGACGTGTAA CTACAGGCTT TTACTAAGCC AAGGAAAAAG 120
AGAATTTTNC TTTTCATCTT ACAAATTCCTA GATATCTACA AANGNTGTGA AAGCACTAAA 180
AGNGNNGNTT TTAAGCAGTA CTTTACCTGT TTTTCCTTTA GCAAACCAGG TTATGTGGTG 240
TAAAGGTTTG TNATACGTGC CACAATATAG CATATAAATG TTATGCCATC ATTCCTTCTC 300
TTGTTAN 307
```

(2) INFORMATION FOR SEQ ID NO: 5564:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 188
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS06614
- (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5564:

GATCTATACA TGAACAGCAG AATGTATAAG CTAGCATTTA CTAGCATGTC TCTNATACTT 60  
 TTGTNCATTT CTGTTAATCG TCATTTCTGT CCCCTCTGCA TGGAATTTNA TACTTGTCTA 120  
 GGGTAAGAGT TTGTAGACTC TTTCAGCAGA ACAGATTTTA ATAACCAATT TATNTGTTTT 180  
 ATTTTAAA 188

(2) INFORMATION FOR SEQ ID NO: 5565:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 178  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06615

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5565:

GATCAGCACA TCCAAAAACA CCAAGACAAA CATCCATGTG GAGCAGAACC TNTCCTGCCT 60  
 CGGGAGTTCT GACCAGGTTT CCCAGCAGGG TGTTAAGCCT CTGTNTCTGG CCCTACCAGC 120  
 ATNCGGGTTC CACTTTTCCT AGGAGAGNGT GGAGATGGGN NGACAGGGAA AGGNNGGN 178

(2) INFORMATION FOR SEQ ID NO: 5566:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 104  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06616

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5566:

GATCTATCAT TTTAATTGAT TCTGAAGCTT GTATTAAAAA CTAGGCAATA NCATCATGGG 60  
 ATACATAGGA GANGGCACAT TTTACAATCA TNCATTNTGG CCNN 104

(2) INFORMATION FOR SEQ ID NO: 5567:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 130  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06617

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5567:

GATCTGCTGA CAAAACCTGG GAATTTGGGT TGTGTATGCG AATNTTTCAG TGCCTCAAAC 60  
 AAATNTGTAT TTAACCTATG TAAAAGATAA GTCTGGAAAT AAATGTCTGT TTATTTTTGT 120  
 ACTATTTAAA 130

(2) INFORMATION FOR SEQ ID NO: 5568:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 80

(B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06618  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5568:  
 GATCATTTTAA CATTCTGTGT ATGTAACAAA ATATCACATG CATAAATATT ATGTATCAAT 60  
 AAAATTTTTT AATGGGCAAA 80

(2) INFORMATION FOR SEQ ID NO: 5569:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 58  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06619  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5569:  
 GATCCGGTCA CTGCACTCCA GCCTNGGAGA CTACAGCAAG ACTCTNTCTC CAGTTAAA 58

(2) INFORMATION FOR SEQ ID NO: 5570:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 188  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06620  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5570:  
 GATCTGAGGG GTGGTGCCTA CTTCCACTGT AAGAAAGAAT CTNGGTGGAT TTGTGTNTCA 60  
 AATCANGATA AGAGAAGCCT GTTTAAAGGA GCAGATGCCA TCTNCTGNCT TCCTCAAGGA 120  
 GCCAGTTAAA AAACCAGAGC ATTCCTTTTN ATTGAAAAAT AAAATTAGTT TGTTATCAAA 180  
 ANNNGGTN 188

(2) INFORMATION FOR SEQ ID NO: 5571:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 240  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06621  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5571:  
 GATCATAAAC CGTTGCGGGA CAGAAGTTAG ATATGTGATT GATTATNATG ATGGTGGTGA 60  
 AGTCAACAAG GACTACCACT TCACCATCCT GGACGTCCGT CCTGCCTTAG ATTCACTTTC 120  
 GGCAGTATGG GACAGAATGA AAGTCGCTTG GTGGCGTTGG ACCTCGTAAA GCACTGTTTC 180

AGATGGAAAA NTATAANCTA TTTTNTNCTG AGCGATACAT TAACTATTT TCCCCAGAAA 240

(2) INFORMATION FOR SEQ ID NO: 5572:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 197
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06623

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5572:

```
GATCCTCATC TTCCCCAAAT ACTCGTTCCC AAAATTGACG AGCCTGACAA TGTGCATGCC 60
AGGCAAGGCT CTTGGGGTTC CCCTAAAACA CTTCCTCTTT TAAGCCTACC ACTCACTCAT 120
CATGAATATA GTCCATTGTC CCAGGGTGTA AAACCCTCTA TAGTGTTAAA TAAAAGANTG 180
ATTGGGGAAC ATTGAAA 197
```

(2) INFORMATION FOR SEQ ID NO: 5573:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 109
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06624

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5573:

```
GATCTGGCTC AGTCTACTAT GGGCAGGGCC CCCCACCAAG CTGAGCCGAA TGGAGACAGC 60
TGAGCTGAGG CCTGACTTTT TCAATAAAAC ATTGTGTAGT TCTGGGAAA 109
```

(2) INFORMATION FOR SEQ ID NO: 5574:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 333
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06625

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5574:

```
GATCTGAGCT GATGACTTGT GAGAGAAAAA GGGAACAGAG TAAAGCCATG GAAGCCATGA 60
ACAGTAAGAG ACTGCCGCCT GGCATGGTTT CTTCCTTCTGC AGAAGATGAA ACTGAGGAGA 120
AACAAGACAA CATCCTTCAT ACCAGGAATG GTCAAGATAA TGCAAGAAGA GNGNAGCTTT 180
CAAACAANTC AGNAGGCAGT CAACAAACAG NAAGGGGGNC ATTCCTTCCC TGGCAGTTAC 240
TCATANCTGA AATTGCTTAT TGTGTACACC GGGGCTTGTA CTTGGGGNAT TTAATANNAT 300
TGCTCATTNC CAAGCTCCNA ANNNAANTTA TTN 333
```

(2) INFORMATION FOR SEQ ID NO: 5575:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 132
- (B) TYPE: nucleic acid

(C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06626  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5575:  
 GATCGATTGC AGTCAGAGCC TGAAAGTATC CGTAAATGGA GAGAAGAACA AATGGAACGC 60  
 TTGGAAGCCC TTGATGCCAA TNNTNGGAAG CAAGANGCAG AGTGGAAAGA AAAGGCAATA 120  
 NNGGAGCTAG AN 132

(2) INFORMATION FOR SEQ ID NO: 5576:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 272  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06627  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5576:  
 GATCTTGGCT TCTNACAGTT CTNCCTGTCC AAACCTCCATC CTGTCCCTCA GGAACGGGGG 60  
 GAAAATTCTC CGAATGTTTT TGGTTTTTTTG GCTGCTTGGA ATTTACTTCT GCCACCTGCT 120  
 GGTCATCACT GTCCTCACTA AGTGGATTCT GGCTCCCCCG TACCTNATGG CTCAAACCTAC 180  
 CACTCCTAAG TCGCTATATT AAGGCTTATA TTTTGNTGGA TTACTGCTAA ATACAAAAAT 240  
 NTTTGANAGG GANNGGNGNG TGNGGNGTGT NN 272

(2) INFORMATION FOR SEQ ID NO: 5577:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 133  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06628  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5577:  
 GATCATCCTG TCTGGCTGCA GTGAGAGACC AACCCCTAAC AAGGGCTGGG CCACAGCAGG 60  
 GAGTGCAGCC CTACCTTCTT CCCTTGGCAG CTGGAGAAAT CTGGTTTCAA TATAACTCAT 120  
 TTAAAAATTT AAA 133

(2) INFORMATION FOR SEQ ID NO: 5578:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 186  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06630  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5578:

GATCCACAAA CTNCCTGACA CTACTNNCAT ATTTCCACTA AAGGAGATTC AGCTACAAAA 60  
 GGAGGCCAGC CNTCGGTCTT CGTCGATGCC TGA CTAGGC ANGCCAGCTT TCCGCGTGGT 120  
 GGACACCGAG TTCTAAGCCA CAGACCGAGG CCCCAGCAGN CAGCGGCTGG AGGGNTGCCA 180  
 CANCNN 186

## (2) INFORMATION FOR SEQ ID NO: 5579:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 136
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06631

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5579:

GATCCACTGC CTCGGCCTCC GAAAATCTGG AATNATAGAT GTGAGCCACT GCGCCAGGCC 60  
 TGTAATTTTA TGTATCTTTA TGTGATTATT TGAATGTCCC TCTCTGACTA GATTATAAAT 120  
 TCTAAGGATA GTGAAA 136

## (2) INFORMATION FOR SEQ ID NO: 5580:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 66
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06632

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5580:

GATCCCCGTT CTCAAGTGTC NCNGGGAACA TAAACNGAGA TAACATGAAA AAAGTTGACA 60  
 CAGAAA 66

## (2) INFORMATION FOR SEQ ID NO: 5581:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 122
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06633

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5581:

GATCCTTNAA GGCAGCTGCC TTATCTTATT CCTTNTTGTA TTTCCATACC TAGCCTAATA 60  
 CCTAGCTTAT ATAAGGGAAC AGAATAAATA AACAATAAAG AAAAGTCTTT ACAGCCTCTA 120  
 AA 122

## (2) INFORMATION FOR SEQ ID NO: 5582:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 262
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single



(D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06634  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5582:  
 GATCCAGGGC CGTTCATGAA CCACTGGGCT GGATTNGACT GTTGAGTGTG GCAGTTAATG 60  
 CCCCTCAANA AATCAAAGGA TGTCTTATAA GTGTCTTCCA AAAAAAAGCA AATGCTGAAA 120  
 TCCTATTGGC AAAGTAACT GAAATTGGCT GCTATATTTN ATATAATCAT TTCTGCAANT 180  
 CCCANTTNTT GNATACTNAT GTNGGACATG GTTANTTCTT ATTAATTGTG TGGAATTGTT 240  
 TATTGTTAGN AGTGCANATN GN 262

(2) INFORMATION FOR SEQ ID NO: 5583:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 275  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06635  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5583:  
 GATCCTGGCC AGTACAAAGT CGTTGCTCTT GTTTATCTT CTCTTACAGA GTCTCCCTCC 60  
 CTTTATAGAA TGTCAACCAA AGAGTGCCCT CCTCCCCTCT CAGCCTCCTN TNNAGCTAGC 120  
 CTCCCCATCT CATCACAACG CATGTCTGTG ACCTTTGGTA ATCATTTACA GTGCCACACG 180  
 GAACCCTGTA TTTTGCACAC AGCAAAACAA ACAATGTTTA GCTTTATTTA TGGTATTTGA 240  
 TGCTGTAAAT GGAAATAAAT ATTGTTCTTT ATAAA 275

(2) INFORMATION FOR SEQ ID NO: 5584:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 170  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06636  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5584:  
 GATCTCTCTC GCCACGGCAC CGTCAGCTCC TTTGTGGCCA AGCTTTTCAT CTTTGTGTCT 60  
 GCAGAGCTCT GAGCACTCGC TTCGCGTCGC GGGGTCTCCC TCCTGTTGCT TTCCTAACCC 120  
 TGCCCTCCGG GCGGTTAATA AAGTCTTAGC AAGCGTCCCA CACAGTGAAA 170

(2) INFORMATION FOR SEQ ID NO: 5585:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 115  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06637  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5585:  
 GATCAGCTTT NAGAGTGGTC CTAAGCAGTA AACTGGATGA TGTTGCATTA GAAAAACATC 60  
 AATACTTCAT ATTTAAGTNT NAGTAGTTAC TACTGATTNG ATAATCACTT AANTN 115

(2) INFORMATION FOR SEQ ID NO: 5586:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 254  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06638

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5586:

GATCCTTGTTG GACTGCCACT GCTGGCTGCC TCCTCTCCAA CTCATCAGAA GAGCATTTTG 60  
 ACAAAGACAG AGGACTTGGA CCAGGGCATG CCCTGTTGGG GATGTTTCTG TCAGCAAGGA 120  
 CATGGCATGG AATCAAGTGG GCTGATGTGT TGTTATTTAA ACAGTACCAA AGTGCATTCT 180  
 TCAATGTATG TTTGCCTGCT TGAAGCAAGG CCAAGTTGA GAATACAGTA AAGGNAACTC 240  
 ATGAAAGTGA GAAA 254

(2) INFORMATION FOR SEQ ID NO: 5587:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 301  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06639

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5587:

GATCCCGCCC TGACCCAGAG GAAGCCTCTA TTTATTTATT AGCTTTTGTT TACACCGTGG 60  
 AATTGACCCC TTCCTCCAGG GGTCTTGGGT GGGGGAGCCC AGGGCCCCTG TGACCCCTCC 120  
 TTTCTTCCTC CAATCCCCAG TTTGTATTTA GCTGCCAAAT AAGATTCCCA TTGGNTCCCT 180  
 GTGTTCTCTT GGGGGGTCAG GGTGCTGTCC CCTNCNNTCT GTTTACATCT CCCCTNTACC 240  
 CCGCTGTATC GCATATTGNN GAGTTTNCTA TTTTGTCAAA ATAAAGTGAT GGAAACTCAA 300  
 A 301

(2) INFORMATION FOR SEQ ID NO: 5588:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 206  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06640

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5588:

GATCAGAGAA AATACGGTAC ATGTCCCAT GGAGGATATG GCTTGGNCTT GGAACGATTC 60  
 TTAACGTGGA TTCTGAATAG GTATCACATC CGANACGTGT GCTTATACCC TCGATTGTC 120  
 CAGCGTTGCA CGCCATAACC ATTTTCTCCA GAAGCGTGGA GGAAAGATTA TNNAAGGANC 180  
 AGGCTCTTCA AAAAAANNAN GNNAAN 206

## (2) INFORMATION FOR SEQ ID NO: 5589:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 84
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06641

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5589:

GATCTTCTTC ACACCAAGCT CATGGTTACA TNCCGTGAGG TGTCATGAAG AAAGTNC TGT 60  
TCAATAAGGT TTTGTAATGT TAAA 84

## (2) INFORMATION FOR SEQ ID NO: 5590:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 150
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06642

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5590:

GATCTGTGGC TGGGAATNGAG GGAGCGCCTG CTTCTTCTCC AGCTTGGA AAA ACAATAGGA 60  
GAAGGGTCAG CTCCGCGCGG GCATCATCCC TACCAGATTG AGTGTTTTGC ACGCACTTCA 120  
ATCACAAAAT AAAACAGTGA GAAAGTCAAA 150

## (2) INFORMATION FOR SEQ ID NO: 5591:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 123
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06643

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5591:

GATCATCATA TCAAGATGAT ACCAAAAGTA TGTA AAAAAGA AACCTGCATT ATTTTGTAAT 60  
NATTTCTTAT AGATATTTCA TGGTAAGATT AGCAGTCAAT AAAGTTACTT TTTTNCCTTT 120  
AAA 123

## (2) INFORMATION FOR SEQ ID NO: 5592:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 170
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06645

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5592:

```
GATCCTGCAA ATATCTTCTT TCCAGTTTGN TATTGTCATT TGNCTTTTGA CTTTGTCTG 60
GTATTTTTTG NTATGTAGAA ATNTTTATTT TCATGTAAGC AAATTTATGA ATCTTTGNAC 120
ACCATAAGTA TATACAATTA TGATTGTGCA ATTAAAAATA TTAGTACAAA 170
```

(2) INFORMATION FOR SEQ ID NO: 5593:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 101  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06646

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5593:

```
GATCATCCGG TGAAAGAACC AGTCCCTGNG CCCCAAGGAT GCCGGGGAAA CAGGACCNTC 60
TCCTTTCCTG GAGCTGGTTT AGCTGGATAT NGGNGGNTTT N 101
```

(2) INFORMATION FOR SEQ ID NO: 5594:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 104  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06647

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5594:

```
GATCTCCGTG GGAACATTTT CGTTGCTGTC GGTGCTGGCA GGAGCCTGTT TCTTCCTGGT 60
CCTGAAATAT AGAGGCCTGA TTAAATACTG GTTTCACACT CAAA 104
```

(2) INFORMATION FOR SEQ ID NO: 5595:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 91  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06649

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5595:

```
GATCGTGCTG CACAACCGGA GAAGACAGAA TTACCTCTGC TCTTTTAATA TATAATGATG 60
GCTTTAAATA AANTTAGGAG AAAATGTCAA A 91
```

(2) INFORMATION FOR SEQ ID NO: 5596:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 126  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06650  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5596:  
 GATCCAGAGA GTGGGGGTGA GGGGTGGGCC CTGAAGACTT TTTGTCTGTA GCTCTTGCAT 60  
 ATTGAGTGTA TAAACCCGGC TTCTGGACCA ACCCAAGATG AATAAACTGG GGCAGAAAAT 120  
 TACAAA 126

(2) INFORMATION FOR SEQ ID NO: 5597:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 393  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06651  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5597:  
 GATCCTGGTG GCCACCAATN TGTTTGGCCG GGGGATGGAC ATTGAGCGAG TCAACATCGT 60  
 CTTTAACTAC GACATGCCTG AGGACTCGGA CACCTACCTG CACCNNGTGG CCCGTGCGGG 120  
 TCGCTTTGGC ACCAAAGGCC TAGCCATCAC TTTTGTGTCT GACGNGAATA ATGCCAAAAT 180  
 CCTCAATAAC GNCCAGGACC GGTTTGAAAGT TAATGTGGCA GAACTTCCAG AGGAAATNGA 240  
 CATNTCCACA TACATCGAGC AGAGCCGGTA ANCACCACGT GCCAGAGCCG GNCCANCCTG 300  
 AGNCGACCGT ATTGTAGCTT TTAACNCCC TTNCCAGGC GACCATTTTT TGNGAAAGTT 360  
 NGAGGTTTGT TTTNNTGGNT TTAACTTTN TTN 393

(2) INFORMATION FOR SEQ ID NO: 5598:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 69  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06652  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5598:  
 GATCAGAAGG CTCTGGNCAA GAGAATGAAA ATNAGGATGA GGAATAATAA ACTCTTTTTG 60  
 GCAAGCAAA 69

(2) INFORMATION FOR SEQ ID NO: 5599:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 85  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06653  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5599:  
 GATCTCTTTG TCCCTGAGGT GTCAGCTGCC AACAAGAAGC ATTAGAACAA ACCATGCTGG 60

GTATAATAAT TGCCTCATTG GTAAA

85

## (2) INFORMATION FOR SEQ ID NO: 5600:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 149
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06654

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5600:

GATCTTGGAG TCGTGGAAC TGTGCCCCAC CGGGTCCTGC GCCGTCAGCA CAAGCCACGC 60  
 TTCACCACCA AGAGGCCCAA CACCTTCTTC TAGGTGCAGG GCCCTCGTCC GGGTGTGCCC 120  
 CAAATAAACT CAGGAACGCC CCGGTGAAA 149

## (2) INFORMATION FOR SEQ ID NO: 5601:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 120
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06656

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5601:

GATCGATGTG CTCAGCCAAA TNTCCTGTTT GAAATATCAT GTTAAATTAG AATGAATTTA 60  
 TCTTTACCAA AAACCATGTT GCGTTCAAAG AGGTGAACAT TAAATATAG AGACAGGAAA 120

## (2) INFORMATION FOR SEQ ID NO: 5602:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 162
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06659

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5602:

GATCAAAACC AAAAAAATG NACCAAAGGC TTGGGTGGTG AGGGTGCTTA TCCTTTCTGT 60  
 TATTTTGTAG ATGAAAAAAC TTTCTGGGGA CCTCTTGAAT TACATGCTGT AACATATGAA 120  
 GTGATGTGGT TTCTATTAAA AAAATAACAC ATCCATCGGA AA 162

## (2) INFORMATION FOR SEQ ID NO: 5603:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 56
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06660

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5603:

GATCCTGTTC TGTAATAAAC ATATTTTGCC TTGAGTAAAT TTGTTGTAAG CTTAAA 56

## (2) INFORMATION FOR SEQ ID NO: 5604:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 90  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06661

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5604:

GATCCTTCTT GTATCTTGAA GTTTTGTACT TGGGATTTCT GGACTGATAA ATGAATCATC 60  
 ACATTCTTCT GGTAATATT TTCTTGAAA 90

## (2) INFORMATION FOR SEQ ID NO: 5605:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 219  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06662

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5605:

GATCTGAAGA AGATGATGAA GTTGTGGCAA TNATTAAGGA ATTGTTAGAT ACTAGAATAC 60  
 GGCCAACTGT GCAGGAAGAT GGAGGGGATG TAATCTACAA AGGCTTTGAA GATGGCATT 120  
 TACAGCTGNA ACTCCAGGGT TCTTGACCA GCTGCCCTAG TTCANTCATT ACTCTGAAAA 180  
 ATGGGAATNC NGNGCATGCT GCAGTNTTAT ATNCCGNNN 219

## (2) INFORMATION FOR SEQ ID NO: 5606:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 289  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06664

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5606:

GATCAACTGA ACCAGTATGC CAAAACCAGG CATCCAATTT GTAAACCAAT TATGATAAAG 60  
 GACAAAATAA GCTGTTTGCC ACCTCAAAAC TTTATGAACT TCACCACCAC TAGTGTCTGT 120  
 CCATGGAGTT AGAGGGGACA TCACTTAGAA GTTCTTATAG AAAGGACACA AGTTTGTTC 180  
 CTGGCTTTAC CTTGGGAAAA TGCTAGCAAC ATTATAGAAA TTTTGCCTTG TTGCCTTATC 240  
 TTCTTCCAAA TGTACTGTTA AATAAAAATA AAGGGTTACC CCATGCAAA 289

## (2) INFORMATION FOR SEQ ID NO: 5607:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 216  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06666  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5607:  
 GATCTGGAGC ATTTGAANCA AGTTTATAGA AGANCATGCC ACAAACCTAA GCAGGACCAA 60  
 GGAAGAGCTT TNAAGGCCTG AGGTCTGCGG AAGGTGGGAG GAGGCAGACG CCCTGCNTGG 120  
 CCCATGGTCG GGGCGTCCAC GGCGAGGCCG GCAACAAACG GCAGTATCTN GNATTCCTTT 180  
 TTTNTTTTTT NAAATTTTTA ATNCTTTGGT NTTTCN 216

(2) INFORMATION FOR SEQ ID NO: 5608:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 350  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06667  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5608:  
 GATCAGAATT ATAACCATGG AGAATTTTTT CTTCTGAGCA TTTTAATATA CTTGAAAACA 60  
 ACATTGACTT GAAAAATTTT AGAACATTTT TCAGTACCTA GTTTTATTAA ATATTACACT 120  
 TGAGAGACAC TTTTAAAAA TGTGTTAATG TCAATATGAT GAGATTTTAG CCTTCTCTCA 180  
 GAACTAAGGC ATTAAGAAA ATAGCAAATA TTAATAAATA AAAGTGTAC TTTTCTCTT 240  
 CTTTCTTTTC ACCTTTAGGT TAATATCCAG TATTATGTGT TATCCNTTG GATAAGTATG 300  
 CTTTATTTTA CTCNGTTAA AAATTAATAA AAATGATTTC TATTCATAAA 350

(2) INFORMATION FOR SEQ ID NO: 5609:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 105  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06668  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5609:  
 GATCCTNAAG AGAGCTGTCC CAGCACTCTG GCCACCAGGA GGGCCANATT CCCCANAAAC 60  
 TACCTNTTGC CCAAAGAACA TNCTCAGTAT TTGGGGCATT TCCTN 105

(2) INFORMATION FOR SEQ ID NO: 5610:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 265  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06669



## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5610:

```

GATCCCAGTG TCTGAGTGAA CTAACAGTCC TGCTTTCAGC CACCATTGTG ACAAGACACC 60
CAGCACTGAA AGTCCCCTG CCAGGAGCAA GGGATTCTTT GGAAGCACCC GCCCTTTGTG 120
CCTTGTTGGG GGAAACCGGT GACGCAGTAG TGAGTGTGGA TACACCAGAG TTTGCATTGG 180
AAGGAATGAG TGTACGTGG GGAGGGAAGG GGCCAGTGGA CCTTTTGTA GCTTTCCACT 240
CAATAAAATG AACCTGTATG GCAA 265

```

## (2) INFORMATION FOR SEQ ID NO: 5611:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 138
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06670

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5611:

```

GATCCATGTT GAACAATACA TGTAGTTCT TTTTCCACGC AATGTAAGAN CATGATATAC 60
TGTACGTTGG AAAGCATTTA CCTTATTTAT ATACCTGAAT GTTCTACTA CACAAATAAA 120
CATATATTAA ATTCTAAA 138

```

## (2) INFORMATION FOR SEQ ID NO: 5612:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 160
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06672

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5612:

```

GATCTGTCAT GCCCCACCGC CCCCCCTACT CCCTTCAACC CTCCCTCTTT CTGCCCATT 60
CCTCCACCCC CCTCACTCCC ATTTCTTAGC AAAATCAGAA GATTGTGAAG AGGCCGGCTT 120
CAACAAAATN GGATAAANAN ATAATTTTTT AAAACTTAAA 160

```

## (2) INFORMATION FOR SEQ ID NO: 5613:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 217
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06673

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5613:

```

GATCCTATGT NCTGCTTGCA CAGAGGCCTT TGGATTTTAA CCCAGGAGNT TCGNGAGNTG 60
AGAGCTGCCC TGTCTTTNAT TGAGCCTTAG CATTTCCCTC TCAGGCTTCC TCTCAAGCTC 120
AAGGAACTCA CCCCCAGATA AGAAGCTGGT GCCTCTTGTC TCTCTNATTT CAGAAACGGA 180
CTTTCTNATC ATGCTTTCCT ATGGTGGGTA TGNGNNN 217

```

## (2) INFORMATION FOR SEQ ID NO: 5614:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 109
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06674

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5614:

GATCCCGAGAA TTCAACCTGT ATTTATAGAT GGATAATGTA NTTAGCTAAT TTTTGGTTTA 60  
 AATGANCTTN TTGGGTTAGC TTNCGTAAAT GNTATAATTT TTAAGTGTN 109

## (2) INFORMATION FOR SEQ ID NO: 5615:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 267
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06675

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5615:

GATCCCCAGC TGGACTCCCC ACCCCCTGGC TTCCCCACCT CTCCAGGNGT CAAAGGTGAA 60  
 CCGAGTCCAG TATTAGCTGA ATGTCATTTT GTACACCACA GCTCAGTCAG CCCATGGGCT 120  
 TCGTGAACCT TGCTCCAACA CACTGATGTG TGGGCTTCCC ACAGCAGGAC TGAAGTCCCC 180  
 CTTTCTGTTG TTTGCACATN CCCCTCTTAC TGTACTGTCA ATAGATATTT TTGAGATTTA 240  
 TTTTAAATA AATATTCAAC TTGCAAA 267

## (2) INFORMATION FOR SEQ ID NO: 5616:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 61
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06676

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5616:

GATCAATAAT ATATAAAATN TGAGTGTGGG TTTGTATCTA ATAAAGTATG CCAACACCAA 60  
 A 61

## (2) INFORMATION FOR SEQ ID NO: 5617:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 330
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06677

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5617:

```

GATCTTGAGG CCAACATGC TTGACTCTGC CCAAAGTCT CCTTCCTCAG CAGGATGCAG 60
CCTATTACAC TCAGCACAGN ATCTGGCACT CTTAGGTTCC CGGTCCATTT CAAACCTCCT 120
GCAACCAACA AAAGGATAGT TCCTTAATAA TTTGTCAAGC CTACCTAGGG CACTGCTAGT 180
AGTCTTACCA TTATTCACAA ATAGGGCTGA AACATCTAAA ATTACCCAC TTAGTATTTC 240
ATATCCCTTC AACGTTCTAT CCTAAAGCTA ATGTTTCTTA GTGCTAATTA NAATCGTCAG 300
TCTATTGACA NTNTGACAAA GGGTAAGAAA 330

```

## (2) INFORMATION FOR SEQ ID NO: 5618:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 84
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06678

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5618:

```

GATCCAGGN TTCTGCGGAC CGACGATACG TTAAATGTT GTTCTAGTAA ATATTCTTGA 60
ATGTATTAAA ATGGCTGAAA CAAA 84

```

## (2) INFORMATION FOR SEQ ID NO: 5619:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 244
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06679

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5619:

```

GATCGTGTTT TNTAGATGAA ACCATCAAGA ACCCCGCTC GACTGTGGAT GCTCCACAG 60
CAGCAGGCCG GGGCCGTGGT CGTGGCCGCC CCCACTGAGA GGCACCCAC CCATCACATG 120
GCTGGCTGGC TGCTGGGTGC ACTTACCCTC CTTGGCTTGG TTACTIONT TTACAAGGAA 180
GGGGTAGTAA TTGGCCCACT CTNTTCTTAC TGGAGGCTAT TTAAATAAAA TGTAAGACTT 240
CAAA 244

```

## (2) INFORMATION FOR SEQ ID NO: 5620:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 102
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06680

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5620:

```

GATCTTCATT AGTCAAGNTT TAGTTATTNN GTTGGCTTTT CCATGTAGAT TTCCAAGTGA 60
CATTACATA CTTTNATTAA AGAAAATTTG GAGACTGTTN NN 102

```

## (2) INFORMATION FOR SEQ ID NO: 5621:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 71
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06681

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5621:

GATCGGGCCC CATGTCTGTG CTGTCTAGTT TGTGTTCAAA ATGTCAGAAT AAACACAGAA 60  
TAAATGTAA A 71

## (2) INFORMATION FOR SEQ ID NO: 5622:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 269
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06682

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5622:

GATCTTTTAA AAAAGTTAAA GGACATCCTA GAGCCTTAAT AGTTAAGAAG NGTTAAATTA 60  
TCAAGCCTAT TTGTGCATTT CCTTTTNTTG AAAAAGGTAA GTTGCTGATT AAGTCTAATT 120  
GGAATTGATA ATTCCATAGT CTTAGATTAN NNTGAGGATA TTTCTCCTA GATTTCTTCA 180  
TGTNATGCCA TGCATTTATA TATCTNACCA TTAATTTTAC ACTAAGGATG CTTACCATA 240  
TAATAANNGG TGCANGTGG AAGCAANN 269

## (2) INFORMATION FOR SEQ ID NO: 5623:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 375
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06683

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5623:

GATCTCCTTT TCCAGTGCTG CACACTCCTG GTTTGGAAGT TTAATGGCGT TGCAACGGAA 60  
TCCTATATNC AGTTTCCTGT AATTTAATTG AAGAAAAATG CATCCAAATN AAGACTTTAT 120  
TATTAACNGA CCAGATNGCA TCAGAAATCA TGTGTCTGTT ATNATTATCA GAATATGTCT 180  
TAACTTTTTN GGGCAAAGTT AACACTGAAA GTTCTAGCTT AAGTGTTGAN ACTTTTGTGG 240  
GGNAAAAAAN TCACTTTTGA AACTCAGACT TCAGNGTATA CCCANTAATT TAANGTTCNT 300  
GTGAAATGGT TTAAATGTGT NGGACTCGTA ATGACTGTTT TANTGGTTCC AGTTTCTNCA 360  
NGTGGGTAN TTGGN 375

## (2) INFORMATION FOR SEQ ID NO: 5624:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 54

(B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06684  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5624:  
 GATCTGATAA CTTGAATTCA GAATATTAAG AAAATGAAGT AACTNATTTT CAAA 54

(2) INFORMATION FOR SEQ ID NO: 5625:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 182  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06685  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5625:  
 GATCTGTTTT TATAAAGTGC TCCATGATTC TCTGAAAACA GTATACTATG TATCTAATTT 60  
 TTGGATACAG GATGGACATA CGTACTCAAA CTGTGTTTTT CAATTTGTAC TGTATTGTGTT 120  
 TCTCTCGACC TGA CT TAGTG ATAGAGGTAT ATTAAAGTNT TCCACTAGCA TGGTAGATTA 180  
 AA 182

(2) INFORMATION FOR SEQ ID NO: 5626:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 367  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06686  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5626:  
 GATCCTATGG NTTTTCCCGG CTGGTTGCCA CTACTGTACA ACATTCAGTG CCCACATCCA 60  
 TCTNTGCCAT TAAGCTTTTT TGAGACATGA GAGATGCCTC TNCCCTGCTG TATGACATGC 120  
 ATTTGGGAAG TTGGAAAGAA ATGACAAANT CAGGGAGAAA ACATCCAAGC TTCTTACCTG 180  
 TAGATAGANT CAGCCCTCAN TTGGTGCTTA TNACCAGTTA TTCANGAACA ATAACANCAA 240  
 CAAANTTAGT AGACATCCAA GAGGCACATA TTAGGGCCAA AGATAGCATC ANCTGTNTTT 300  
 GAGGGANCTG TAGTTTTGCG CATT TTNATG NCATTTTAT AAAGGTACTG TNATTNTTTC 360  
 ATTGANN 367

(2) INFORMATION FOR SEQ ID NO: 5627:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 336  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06687  
 (ix) FEATURE:

## (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5627:

```

GATCTAGTTT GACTTTCTAG TTAGTGGTGT TTTGAAGAGG GTATTTTATT GTTTTTTAAA 60
AAAAGGTTCT TAAACATTAT TTGAAATAGT TAATATAAAT NCATAATTNC NTTTCCCCTG 120
TTTATTGTAA TGTATTCTAA ATTAATGCAG AACCATATGG AAAATTTCAT TAAAATCTAT 180
CCCCAAATGT NCTTTCTGTA TCCTNCCTTC TACCTATNAT CCTGATTTTC AAAAATGCAG 240
TTAATGTACC ATTTNANNTG CTTGATGAAG GGAGCTCTAT TGCCNTTANC AGNAATTGTN 300
GCTAAGGTAA TTCCNAATAG AAAGCTGCTT ATTNNN 336

```

## (2) INFORMATION FOR SEQ ID NO: 5628:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 364
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

```

(B) CLONE: HUMGS06688

```

## (ix) FEATURE:

```

(D) OTHER INFORMATION: "N"=unidentified base

```

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5628:

```

GATCTTCTTG ACCTTCTCCA TCATCGCCAT CCTTTCCCAA AGGCCAAGGA AGTGACCTGC 60
CTGCTGGCAT TGGCCAGACC ACAGCAGCAC CTCCTCCATG CAGGCCTTAA CTTTCCCATG 120
GTCAATGCAG TTTTATCAG CCTTGCTTTG GATAGGACCT CCAAGGACTA AGGCCTCCAG 180
CCCCATGTNT GACCCTTGTN ATCTCTCTGC CCCACATAAT TCTGTTACTT TGCTATGTGC 240
TCCTAATGTA TCTAGTGTGT CCTGTGACAA CACTCATCAN ACTTCAGTGN AAATCACTTG 300
GTTTTAATTG ACTGTNTTNT CCTATAGACT GTAAGGNTCC ATGAGGGCAG GGCACATGTT 360
GGTN 364

```

## (2) INFORMATION FOR SEQ ID NO: 5629:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 347
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

```

(B) CLONE: HUMGS06689

```

## (ix) FEATURE:

```

(D) OTHER INFORMATION: "N"=unidentified base

```

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5629:

```

GATCCCGTGT GCCACCAGGA GGGAGTGGCA GCTATAGTCT GGCACCAAAG TCCAGGACAC 60
CCAGTGGGGT GGAGTCGGAG CCACTGGTCC TGCTGCTGGC TGCTCTCTG CTCCACCTTG 120
TGACCCAGGG TGGGGACAGG GGCTGGCCCA GGGCTGCAAT GCAGCATGTT GCCCTGGCAC 180
CTGTGGCCAG TACTCGGGAC AGACTAAGGG CGCTTGTCCT ATCCTGGACT TTTCTCTCA 240
TGTCTTTGCT GCAGAACTGA AGAGACTAGG CGCTGGGGCT CAGTTTCCCT CTTAAGCTAA 300
GACTGATGTC AGAGGCCCA TGGCGAGGCC CCTTTGGGCC ACTTACN 347

```

## (2) INFORMATION FOR SEQ ID NO: 5630:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 318
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

```

(B) CLONE: HUMGS06690

```

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5630:

GATCAAGGTG TGAATAACTG AAGAAAATAA CTTGCTGGCT ATATAGGAAA ATGCTGTGGA 60  
 AATGAAGTGT GTATATACTT CTGGGAGGAA CAAATTTAAT CATTCTCCT GTTAAGCACT 120  
 AATCAGTATA GTGCAACTCC TGGTCTGTN CTGTATTTNA TATGCAACAT ATATGCTTTA 180  
 ATATTTNNNT GTTTGTNCAT TAATATTTNC AATTTGTTTA ACCACTTTGC TGCTAAGATT 240  
 TTNCCGTCCC ATTCCCATTT NTCCCTTTAC AATNNTAAAC ANGTTTCTTC ATTAAANNCT 300  
 ATGGTGATGA AAAANAAN 318

## (2) INFORMATION FOR SEQ ID NO: 5631:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 185  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06691

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5631:

GATCTGTGGG TGTTTTTAAA AAAACTCAAC CTATCTGGTG TTTTATTTTA ATGGATAAAA 60  
 ATGTAATTTT CCTAAGGTAG CAACTTATTT CCAAATTAAT ATAGATGANA AATAGATNCC 120  
 ANTTNGACTA AATTGAAAGC TTTTNNCTCT ATATTTNCAT AGCCTTTGAG AATATTGNTN 180  
 AGTGN 185

## (2) INFORMATION FOR SEQ ID NO: 5632:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 130  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06692

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5632:

GATCAAATAA ACTCANTTTT TTATGGTTAC TGTA AAAAGA CTGTNTAAGN CAGCTCAGCA 60  
 CCATGCTTCT NGTAAAAGCA GCTTCANTTA TCCACTGGGG TTATCTTTTG ACAACTTGCC 120  
 ATTATCTGNN 130

## (2) INFORMATION FOR SEQ ID NO: 5633:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 123  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06693

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5633:

GATCTTAACA AGCTTAAAAA AGAATTTTAT GACCAGAATC CAACAAGAGC TCTATTTTGG 60  
 AATTGTGCCC AAGTTGGTGA TGTTTACTCT AAAATTAATA ATAAACTAC TTGTAAGCAC 120

AAA

123

## (2) INFORMATION FOR SEQ ID NO: 5634:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 235
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06694

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5634:

```
GATCTGAACT GCCTCCTCCT TTCTCTGGCC TCTNCCCCCT TCCCTCTTCT CTTCAGCTAG 60
GCTAGCTGGT TTGGAGTAGA ATGGCAACTA ATTCTAATTT TAATTTATTA AATATTTGGG 120
GTTTTGGTTT TAAAGCCAGA ATTACGGCTA GCACCTAGCA TTTCAGCAGA GGGACCATTT 180
TAGACCAAAA TGTACTGTTA ATGGGTTTTT TTTTAAATT AAAAGATTAA ATAAA 235
```

## (2) INFORMATION FOR SEQ ID NO: 5635:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 250
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06696

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5635:

```
GATCACGCTA CTGCACTCCA GTCTGGGCAA CAGAGCAAAA TCCTATCTCA AAAAATATAT 60
ATATATTATC CAGCCCCAAA TGTTTATGGG GTTGTATTG ATGAACCCTG CATTAAACAA 120
TCCCACAGTC GGTGCTGCGG TGAGCCGTGA TGGGTACCAC TNCATTCCAG CCTGGGTGAC 180
AGANTGAGAC CCTGTCTNNA AAAAAANGT NNAANTTGTT TTCCCNATAT TTTGGNNGGA 240
TTNGTGGGGN 250
```

## (2) INFORMATION FOR SEQ ID NO: 5636:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 131
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06697

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5636:

```
GATCTTGTGT ATTTTGTCC ATATCCAATG TTATATGAAC TAATTGTATT GTTTTATACT 60
GTGACCACAA ATATTATGCA ATGCACCATT TGTTTTTTAT TTCATTAAAG GAAGTTTAAT 120
TTAAATTGAA A 131
```

## (2) INFORMATION FOR SEQ ID NO: 5637:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 58
- (B) TYPE: nucleic acid



(C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06698  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5637:  
 GATCTTAATG GGCAGGGTTA AGAAAGTTAT TTAAATAAAA GTTACCTATT CTAATAAA 58

(2) INFORMATION FOR SEQ ID NO: 5638:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 250  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06699  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5638:  
 GATCAGAGTG ATGTGTTATG CAGAGAATTA AAGGGTGATG TGATAAAGTG ATTGGGTCGT 60  
 GCTTTATGTT GGCAAAAAA ATCTGGAGTA TAAGAAGTTG CTGACTTGGG TGATTTGGAA 120  
 GAGATTGGGA GACTGGGGGG ATTCAGANCT GAAGGANCAG GCTATAGGCT GTAAGGCCAA 180  
 ANTATACTTG CNATGTTCAA ATTACTNAGA GGNTTNTACC NNCNTGCTTT TCTTTAAAN 240  
 ATAAACNTTN 250

(2) INFORMATION FOR SEQ ID NO: 5639:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 354  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06700  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5639:  
 GATCTTGTTA TTGATTAACC ATTTTCTTAT GCCTTGCTAT TGACATATTC ATGCTCTTTC 60  
 TACGTCTAGT GGCTGAAAAT NTTTGCATTT GTTCATTTGA CTAATGGTGT GATTTTNGTT 120  
 TCTATATTAT NAGACCTGTA ATGTTTTAAA ATGTATTTNA TTAAATTTGG ACTGGATGTA 180  
 TGTCTCTAGC AATACGAGGT ACTTTCTAAA CTATTAAGGG AGGGGTTGTA TCCTCATGTT 240  
 GAGATAAGAT GATGGTCGTT TAANTTTNGC AATTTTTTTT GGCCTGCAGG GATATTTTGT 300  
 GTTTATGTGT CCAAAANNGG ANTAANTTGG CATTCTGTG CCAAANGTTG TTNN 354

(2) INFORMATION FOR SEQ ID NO: 5640:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 342  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06701  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5640:  
 GATCTGCATT CTGTAAAAGA GGTACTTTCC CATGATGTAG GCATGAAGTG GTGCCAGTAA 60  
 GCGTAGAGCG GAAATNTTGA CTTTAGTTAA CATTGGGTNT AGCATTGCCA GTGCAGCATT 120  
 ATCAGTGGGC CTTTAAAAAT ACTTCGTAAG TACATTAGCT TTTACTTTGT NGTNAAATTA 180  
 TAGCAGACTC ATTATAGAGA ACAAGTTTGC CTTGATTNN TTTAAAATGA CTTCTGCTAA 240  
 GCACCCAGAA GATAAANTTG ACATATTTTT NTAATNTAAG CATACTTTTT TNGTACATNG 300  
 TGTNCATTCT TGANTAAAT GNGGTTCTGT GTTGGCTTGT NN 342

(2) INFORMATION FOR SEQ ID NO: 5641:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 272  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06702  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5641:  
 GATCCAGTAT AATTNCAGAT TCTNGTGTCC CATCGAAGTT TCTAGCAAGA GGACTGTTGT 60  
 CACATTTCTT TCTTGGACTC ATTACTGGTC ACTGAAAACC AGAAGAAGTT GGTGAACCAT 120  
 CTAAAGAAGA GAAGGCTGTG GNCAAGTATC TNCGATTCAA CTNTCCAACA AAGTCCACCA 180  
 ATATGATGGG GTCACCGGNT TGATTATTTT TTTGCTTCAA AAGCAGTGGN CTGTNTTTNG 240  
 GGATTCAAAG NGGGNAAAGT CCANGTANTG GN 272

(2) INFORMATION FOR SEQ ID NO: 5642:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 264  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06703  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5642:  
 GATCGCAATG AATTNTNAAA ATTACTATTT AANATATTGT TGAGATTCCA TTACCTCCAA 60  
 TCAGTCTTGG GACATTAGAA CAGTGGTATA ATTAAGACTG TATGTTTAAA TTGAGAAATT 120  
 TTGCACAAC TTAACAAGTA GCAGANCTAA TTGTNCACTG ATGGCTTTAA AGATGAAATA 180  
 NTTCTGTGAA TNCATGANAC TGTGAGGGNC TCTNCGTGGT TGTCTAGGTT TATTTATATG 240  
 CATNCTCATT AATNAAAGTN NTTN 264

(2) INFORMATION FOR SEQ ID NO: 5643:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 247  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06704  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5643:  
 GATCTTTTTT ATTTTATAC ACATGACAAG ATTTTACATC AAGAATAGTC AGTTAAATAG 60

TACAAATTTA CATTGATGAG GAATGTTAAA AAAAATTCAA CTAAAAAACC CACTTTTTTCC 120  
 TGTGACCCAT AATCCGACAT TTTACAGTGC AGGGGAGAAG GGGATTAGGG GGCATNCAAA 180  
 ACAAGTCTCT CCCAAAAAGA AAAATGCAGG CATGCAGGNN CGGCGTAATC ANTNNCCNGN 240  
 NNNNNNNN 247

(2) INFORMATION FOR SEQ ID NO: 5644:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 318
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06705

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5644:

GATCCATACA GGTGTGTGT CATCTGTCCT CTTGAGGTTC AGGAGATTCT AAATTGAATA 60  
 TTCCACGGTT TGGGACAGCA TNCGGAAGTT TTCCCTATNA CTTTATATTT TGTATTATGT 120  
 CAAATGTTAT GGCAGGGCCC AAATAGCATA GCCACAAGTT TGGTTTATGT GGGCATAAAA 180  
 TTCTAACCAA ACCCCAGACA TAGGGAGTCA TTTGGAGAAA GCCTGTATGT GGTGTTTTAA 240  
 CCTAATAAAG TTGATGAGAG AGAAGGGGAG AGGAAGCGAA CATAAAGCGG GTCAAGTGTA 300  
 GTGCATCTTT TGTATTGN 318

(2) INFORMATION FOR SEQ ID NO: 5645:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 197
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06706

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5645:

GATCTTTTGA CATACTCACT TTGAGTGGCA TATGCCAGG AAAATATTTA AAAGAAAGAA 60  
 AAGCTATTTT TACAAAGTTT TCTAGCAGTT CCACTCAGAT AACTTTAAGG GGGAAAAAAG 120  
 CCCAACGNTT GGNNATGGTT AAGTAAATTT NGGTGTATTG CTAGTGCTAT CNCNGANTGT 180  
 GTATGATGGC CNTNCAN 197

(2) INFORMATION FOR SEQ ID NO: 5646:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 210
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06707

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5646:

GATCCCCCGA ATAATTTTT TCAATCAAGT TGAAAAACCA AACAGCTATG TAAAGTCCCC 60  
 AGGAGAGCTC TTTTCCCTT ATTNCTCAT TTNTTTTGTT ATAACTGTT TAAATAGTTC 120  
 AAATGGTTGT NCATGCCTAG GGGATGAAAC CTATGTAATA GAAATGTACT GTTTTATGAA 180  
 TAAGGAGTAA AATTNTTTTA AAAAATTAAA 210

## (2) INFORMATION FOR SEQ ID NO: 5647:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 372
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06709

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5647:

```

GATCTGAAAC AGAAACCACC CTCCGGAACC GCCCAAGAAA GGNCTGCTCC ANANACTCTT 60
CAAGCGGCAG CATCAGAACA ATTCCAAGAG TTCGCCCAGC TCCAAGACCA GTTTTAACCA 120
CCACATAAAC TCAAACCATG TCAGCTCGAA CTCCACCGGA AGCAGCTAGT TTCGGCTCTG 180
GCCTCCAAGT CCACAGTGGA ACCAGCCCAG ACCCTTCTCC TTAGAAGTGG AAGTAGTGGA 240
GCCCCTGCTC TGGTGGGGCT GCCAGGGGAG ACCCCGGGAG CCGGGGAAGG AAGGCCGTCC 300
ATCCCGTCGA CGTAGAACCT CGNGGTTTTT TCAAAGNAAT TTCCACTMNG GTCTGTTTTT 360
NCGAGGGGGG NN 372

```

## (2) INFORMATION FOR SEQ ID NO: 5648:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 228
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06710

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5648:

```

GATCCTTGGT ACCCCTAAAA AGATTGCCAA TTTTTTTCAT CTTTGCCATA TGGAGGACTG 60
TGACAGACTT TGGACAGTGG CCTCTTGAGT TCCTCTGCAG TTTTGACATT TAGGATTTTG 120
TGTCTTTTAA ACTGGAAAAT CTTCTAGCAT GTTGGGTTGT TACAGAGTAT ATTTTGTCT 180
GCAGCTGTTT GTTGCCCCAT TCCTAAGAGG AGTTTATCCA TCCNGAAA 228

```

## (2) INFORMATION FOR SEQ ID NO: 5649:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 193
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06711

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5649:

```

GATCAAAACA AGATTTTCCC AGTAAGAATA TACTGGGACA TAACAAATGA AAATATTTAT 60
ACCAAAATAC CAAAAGTNAT TCACCTCTTT AAAATATCCT ACTATAGTCT AATTAGTAGC 120
TTGTNCAAGA CCAAGTAACC ATTTTNNCT GCNCTTTTGA NTGATGATTA GAAATTCAAA 180
CAANGTATTT NNN 193

```

## (2) INFORMATION FOR SEQ ID NO: 5650:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 176  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06712  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5650:  
 GATCCAAGTG CGGAANTCAC AGAAGGAACG GATTACAATT CTCCTNCAGN TAGGGAACCC 60  
 CTAAGNCCAC AGAAGATAAG GAGGAAACAA TACAGAACT AGAGACCCTG GAGAAGAAGG 120  
 AAGAAGAAGT AACTTCAGAG GAGGATGAGG AGAAAGAAGA AGAAGNAGAG ANGNNN 176

(2) INFORMATION FOR SEQ ID NO: 5651:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 273  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06713  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5651:  
 GATCAAGTTT TTAAATTGT NCTNTTATTG TTTTAAATTA AGAACTTTTT GAACTAAAAC 60  
 CAGAACTCT GCCATAGTTC ATTGATTTTA ACATGAAACA TTTATTTACA AGATGATATC 120  
 AAGATTACTT TTCACAAAAT AGGCACATTA TATCANCCT TTGCNCTGCT TTGTAAATTT 180  
 NCCATCCAGG ATTTTGGGGT GGTATTCATG TGAAATTAAA GCAGATTCTC TAGCAGTTTC 240  
 CTATAGCTAC AGTTTTNNNN NTNNCCCTGG NTN 273

(2) INFORMATION FOR SEQ ID NO: 5652:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 231  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06714  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5652:  
 GATCCTGTGT GGAGAGGGAA TGTGAAATTA ACATCATTTT TTTTGGGAG AGACTTGTTT 60  
 TGGATGCCCC CTAATCCCCT TCTCCCCTGC ACTGTAAAT GTGGGATTAT GGGTCACAGG 120  
 AAAAAGTGGG TTTTAAAGTT GAATTTTTTT TAACATTCCT CATGAATGTA AATTTGTNCT 180  
 ATTTAACTGA CTATNCTTGA TGTAAANCT TGTCATGTGT ATAAAAATAA A 231

(2) INFORMATION FOR SEQ ID NO: 5653:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 228  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06715

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5653:

GATCAACATG GTGGAACAAA ATGATAAAGA NCAGAAAACA TTTCAATATA TTACTAATAA 60  
 CTTTTTCCAA TATAATCCT AAAATTCCTA TAACATAGTA TTTTACAGTT TTATGAAGCT 120  
 TTCTATTGTG ACTTTTATGG AATTAAGAGA TGAAGAAGAT GAGATATTTT AGCATTTATA 180  
 TTTTTCAAAA TTATATGTAT ACTTAANANT AANGTANCTT TATGCAAA 228

## (2) INFORMATION FOR SEQ ID NO: 5654:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 182  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06716

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5654:

GATCACAAC TGTGAAAAAA ACTGCACACG CAAAAGACTA CAGGGAAATA TGTAATTNAT 60  
 TATNTTGT TCTCTCAGTG ATAAGATGGG GTGGTTTCTT CTTTGTACTT TTGTATTAAT 120  
 TTCTTACGGT GTTTGTATTA CTTTATAAT CAAGAACTTT GTTTTAAAAA ATAAATCAGA 180  
 AA 182

## (2) INFORMATION FOR SEQ ID NO: 5655:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 93  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06717

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5655:

GATCGTAGCT AGTTTGTATT GTCTTGTCAG TTTTAAAAA AAACAACCAC 60  
 CAGTGAAATG TGTGTGTATA CAATAAATG AAA 93

## (2) INFORMATION FOR SEQ ID NO: 5656:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 331  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06718

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5656:

GATCAACATT TATGACCTAA GTCAGGTAAT ATACCTGGTT TACTTCTTTA GCATTTTNAT 60  
 GCAGACAGTC TGTATGCAC TGTGGTTTCA GATGTGCAAT AATTTGTACA ATGGTTTATT 120  
 CCCAAGTATG CCTTAAGCAG AACAAATGTG TTTTNCATA TAGTTCCTTG CCTTAATAAA 180  
 TATGTAATAT AAATTTAAGC AAACGTCTAT TTTGTATATT TGTAAGTAC AAAGTAAAT 240  
 GANCATTTTG TGGAGTTTGT ATTTNGCATA CTCAAGGTGA GANTTAAGTN TTANNTAAAC 300

CTATAATATT TNNNCTGANA CNCNNGNACC N

331

## (2) INFORMATION FOR SEQ ID NO: 5657:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 250
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06719

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5657:

```
GATCAAGCCA AAAAATCCAC CAGGAANTCC TACTGACTCT CTTTNTAAAA TATAGTCATT 60
TAACNGTCAA AAGAGTCCCC AATAATGTCA GTNCTAAGAT TNCCCCTATT TTTTAAAAAA 120
ACAAAGTAAA TGAAGACTCA AAGAGCAAGT AACTAGTCTA AATTAGATAG TCACAGGTGG 180
TAAAGCCAGA AATCTGTCTG GNCAGTCTAA CTCTATACAN CCCAGGCTTT TAANTATTAG 240
AAAGCNNNNN 250
```

## (2) INFORMATION FOR SEQ ID NO: 5658:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 409
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06720

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5658:

```
GATCTCAGTA TCATACTGAG ACACCTCCCC TGAGCCTTAC CTACTTAAAT TGGTAACCGT 60
CCTACCAAAA TTTGTCAATT TNAATCAAGT GAGGCAAGTT GCAAGGGAGC CAGAGATACG 120
TGAAAAAAGA AAAGCAGAAA TACTGATACT TTCTAAGAAA GAAGTTGTAA TAATTNCTTT 180
GGCACATTGA CTTACTGATA TCTTTTGAAA TGCATAGATG ACTCTTGTGA ACCAANGAGA 240
GCAGTNGTGG TTNTTCCCCG GCGCAATAAA AATGCCTTTG TGTATCACTT GCGGTTGCCA 300
GTCATTTCTG GTGCCAGTTG CTTTNTNNTN CCAGAGGTTT GGCCTTNATT CTTCCGAAAN 360
NAGGGTGATG ATNTTNGAA GNTGGGGTTT TCCTNACCAN ATTATTNTN 409
```

## (2) INFORMATION FOR SEQ ID NO: 5659:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 56
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06721

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5659:

```
GATCTGGAAA AGTCAAGAGA AGAGAGCAGA AAGCAGGCTC TTGCTGCTAA AAGAAA 56
```

## (2) INFORMATION FOR SEQ ID NO: 5660:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 69

(B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06724  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5660:  
 GATCTAAAGA TGATGGAAAA CATCAGCTAC ATTAAATACT CATAAGCAAA ATAAAGGCTG 60  
 GCCTGTAAA 69

(2) INFORMATION FOR SEQ ID NO: 5661:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 208  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06725  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5661:  
 GATCCAAAGG GAAGGGACTA TGCAAGGGCA TTTATAAACG NTGGACAAGG GTTCATTATA 60  
 GAACACCANT GTNATGGACT ATCCCAAGCA TGTACCACTG TGTCTCATGC ATGGTAAAGG 120  
 TCCCATAAAT GTTATTGCTC TCTTGCACTA TAGTAGTAAT AGTAGTGGTA GCTGNTTTAG 180  
 GAGTAAAAAC AGCNAAAAAN AGANNNNN 208

(2) INFORMATION FOR SEQ ID NO: 5662:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 326  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06726  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5662:  
 GATCTGAAAA AAAAGTTTCA CCGTTTGTTC TCTTACCTCA TTTTAAGAAG CATGTGAAAA 60  
 TGGGATACTA TAGACTACTG AGAATTTTCAG AAATTGAGAA CAATTTTCATA ATAAAACGGC 120  
 TATATTTGAA GAGAGANTAC ATTTTATATA ANCAGGAAAA TACATTTGAC ACTTTATGGA 180  
 ATTTNATGAG ACTTTTTGTG GGAACAGAAG GTCTTCAAAT TGTAATATGT AAAGNTTGCN 240  
 CTNTTNTNTA NGTCTTTAAC AGGGGTGTNT TTCATTGTNT GTTTTGGGTA TGGCTTTGGN 300  
 ATAANTCATT NTATATNTNA NTTGAN 326

(2) INFORMATION FOR SEQ ID NO: 5663:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 227  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06727  
 (ix) FEATURE:



(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5663:

```
GATCTGCACA GTTTGGTTTT TGCACAAAAG TCATTTAAAA AAATCTGAGT AATTGTCAAA 60
TATTAAAAGA AAGNTATTCT TCCTGGTAAG GAATACAGTT TTNAGTCAAA GTGGCCATTA 120
CATCCNCTTT TNAATTTACA TAATACAGNT ACTTGTGAAA GTTGTGTGG TGTGTATGC 180
CAAGNNAATN CTTTTTTATT GGTGCCTATA TTGTCACANT TNTNTTN 227
```

(2) INFORMATION FOR SEQ ID NO: 5664:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 324  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06728

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5664:

```
GATCCACCCT CCTCGGCCCTC CCAAAGTGCT GAGGATTACA GGCATGAGCC ACCACAGCTG 60
GCCCCCTTCT NTTTTATGNT TGGTTTTTNA GAAGGAATGA AGTNGGAACC AAATNAGGTA 120
ATTTTGGGTA ATCTGTCTCT AAAATNTTAG CTAAAAACAA AGCTCTATGT AAAGTAATAA 180
AGTATANTTN CCATATAAAT TTCAAAATTC AACTGGCTTT TATGCAAAGA AACAGGTTAG 240
GGACATCTAG GTTCCAATTC ATTCACATTC TTTGGTTCCN GGTAATAATCN GGNGGNNTAT 300
ANCAATTTCT ANTTGGGGTT TNCN 324
```

(2) INFORMATION FOR SEQ ID NO: 5665:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 149  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06730

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5665:

```
GATCCTTCCA CCTTGGCCCTC CCAAAGCATT GGGATTACAG GCGAGAGCAC TTGGTTGGCT 60
AAAAATATTTA TATTACCTG NCATNATTTG TTGATTTGGG GGCTAGGGAG TTCTTAAAC 120
AACAAATAAAA AATCTTCTGT GGCTGCAA 149
```

(2) INFORMATION FOR SEQ ID NO: 5666:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 236  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06731

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5666:

```
GATCACAGTC TTGAGGTCCT CTAGCAGGGG TGAGGGAGAG CAGCGACTTC AGCTGAGTCC 60
CTGCCAGTGG TTAAGCAAAC AATGGTTTCA AAATTCAAGG TCCCCAAATG GCAGCATTTT 120
ATGTTCTGAC CTGTTTGTGT TATATAGTGG TGTTTTNNNN CCNCTTTGGA NCTCTTGNGT 180
```

TGTTAATAAA ATGAAATGAT TACTTTTNA TAAANTGAA AAANGTAAAA AANAAN 236

(2) INFORMATION FOR SEQ ID NO: 5667:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 101
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06732

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5667:

GATCGCGCCA CTGCACTCCA ACCTGGGTGA CAGACTCTGT CTCCAGAACA AAACAAACAA 60  
ACAAAAAGAT TTTATTAAAG ATATTTTGT T AACTCAGTAA A 101

(2) INFORMATION FOR SEQ ID NO: 5668:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 259
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06733

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5668:

GATCCATGGA CCATCTGGGT CATGGCGCCT GGTTCAGAC AACCTGAATC AAATCTTAGG 60  
GGTGGGGCTT TGGGATGTCA TTGTTCAATA GGCACCTCAG GAGATTCTGA GCACACCNNT 120  
GTTTGAGAAC CACTAAATN AGGAGTGGGA AAAAAAAT AGGTGTTTGT TTAATTTAGA 180  
GCTGAGCTGN GANGNTAATA TATTTTNNTT GTCANTGCCA TTACCAGNTA TGCACTGNNT 240  
CTTTTATACC TACANTTTN 259

(2) INFORMATION FOR SEQ ID NO: 5669:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 218
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06734

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5669:

GATCCTGAAG CTTACTATGC AGCCTACAAA CAGCCTTAGT AATTAAAACA TTTTATACCA 60  
ATAAAATTTT CAAATATTGC TAACTAATGT AGCATTAAC TACGATTGGA AACTACATNN 120  
ACAACTTCAA AGCTGTTTTA TACATAGAAA TCAATTACAG CTTTAATTGA AAACATAAAC 180  
CATTTTGATA ATGCAACANT AAAGCATCTT CAGCCAAA 218

(2) INFORMATION FOR SEQ ID NO: 5670:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 222
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single

(D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06735  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5670:  
 GATCAGATTG AGGTTATGCA TTTTGGCAA GAAAACCACG GCAATGATAT GCCCGTCTCG 60  
 GTGCATTINA TCAGGAGATA CTTGATGTCG ATGTGTCATA TTAAGTGGTGA TGTTAACCTT 120  
 GGTTAAGGTT AGTAGCTTTC AGGTTTCTCC ATTGTAAAGT TGCTATTACT TCTTAATATA 180  
 ATAGGCTAGG TTGTACTGCT ATAACAAATA TACCTTAGTA AA 222

(2) INFORMATION FOR SEQ ID NO: 5671:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 86  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06736  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5671:  
 GATCCTTGAA TGAAAAGGAA CCCTCACCAT GGGGCTTACT GTTATAATGT TTCTTCATTT 60  
 ACTGTTATTA AAAGATTTAT GAGAAA 86

(2) INFORMATION FOR SEQ ID NO: 5672:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 391  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06737  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5672:  
 GATCAGAAGC TGCCAGGAAC AAGGAGAAGA CGCTCCCCCTT CCTCACCTTC CCACCCCCAC 60  
 ATGGCTTCTC ANTCGGGGAA AAGATACAAC TTAACCTTAA ACCAAGTNTT AAGTTTGTAT 120  
 TATNACATGG GATTAGATGC ACCAAAAACA ATTTCAAGTG ACTGTGGGGC ATTCTATTGC 180  
 CTGAGAATGT TCAAGAGTCC TGATATGACC TGTTGTTNTT ATCCTAAACA GTGAAAAATT 240  
 CATCCACCAA ATATATAGGA ATAGAGGGTG ACAGNAAGAT GCTTTCTGAA AGGTATCCNA 300  
 TATTTGGGGG TTTTGGGTTA CATATNNCTN ATGTNGGNTT TTAANCTATA GCTCTTCANT 360  
 TANNNTTACT CNATCCATTN CTTGAAAGGA N 391

(2) INFORMATION FOR SEQ ID NO: 5673:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 210  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06739  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5673:

GATCCTNTGT ACATGAAATG AAAGGTGCAT CANCTTGGGG GCTGGGAAAC CTGCAGTATG 60  
 GNTTTACTNC GTCCCTATCA CTGGTGTGGC TGTGGGCAAA CCACTTATTG CCTGACCTAC 120  
 CTCACAGGGA TGTGTGAGG GTTTGATGAG AGAATGAATG TTAATAGGAA TTGGAAAATT 180  
 CAAAGCATTAA AACACATGTA AACAGGTAAA 210

## (2) INFORMATION FOR SEQ ID NO: 5674:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 223  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06740

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5674:

GATCTCAAGA AAAAGCAGGA ATTAAATAAG ACAAGGNNCA GATTAAANATA CCTTTCCCAG 60  
 CAGGGGAAAC AGCAAACCTTA AAGTTCTTAA GGCACANGAG AGCATGGCAT ATATGACGAC 120  
 CCAAAAGAGT GGCCAGATAT CCAGACATCT AGAAGGTCTA GCTAAGTNCT TAGGAAGTAG 180  
 TATAANCAGA NAAGANAAAN TTGTGGCCTC TTTTTTNAAA ANN 223

## (2) INFORMATION FOR SEQ ID NO: 5675:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 391  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06742

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5675:

GATCATGCAC TGTTGACCAC TGAGCAATCT GTGTNACACT AGAGTTCACA GGGCATTTTTA 60  
 AGTGTAGACG TGAGTCCTTA AACATATTTN GNTTCTCTC TCAGGTTTTA AATGTTTCAA 120  
 ATGTAATTNT TGCTCATCAG TGCAGTTATC AATGCAATTT NATATTCCTT GAGGGGAGAA 180  
 AGNGGGGTCT TATTGTACAT GTCCAAGGGG GGTGATAAGA GTATTANCTG TTTAATTTAA 240  
 TTGGANCAAN CCATTGTCTT AACGCAGCCA TGGTTTGANT TTGTCATCTT NGGGCTGACC 300  
 GGTGCATGTA AATACAGTAT GCNCTTTGGA TGTAATCCTT NGAAATGNCA GTGTTGNATG 360  
 GTAGGTTATC CTTNNGTNAA CCCTTNTCTC N 391

## (2) INFORMATION FOR SEQ ID NO: 5676:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 271  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06743

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5676:

GATCCCTATA ACTCAAAATA ACTTGTGTTGT AAAAGAAAAT TTGTTTACTT ACCCATTAGT 60  
 AAGTTCCTGC ATATTCATTA TAAGATGGCA AATCAAACCTT TTCTAGGATG AAGACAGCTT 120

ATNTTNAAGT TGTATAGTCT TAGTTGGTTT AGGGTCTCAA TTTAATTAA TAAAATNCTT 180  
 GGTTTTAATT TGCTTGTCTT TTTGAATTCC NGTTTAAATA ATTNNTNNAG NGNGCAAAGN 240  
 GATGTTGAAG TTCAGATTAA NCTCTNCTGA N 271

(2) INFORMATION FOR SEQ ID NO: 5677:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 166  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06744

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5677:

GATCCTGGAA GTAATCCGGG CACACTTACA TTTGTTGTCA ACAAGAACAA TCCTTTCATC 60  
 TTCTTGGGCT TTCACATGAA CAGCCTTAAT AAAAACC GCC AGGACTCCCC AGAAAAGCAA 120  
 ATGGTTCTTC ATCTTGACTT CACTTCTTCT GAAAACTGG AGCAAA 166

(2) INFORMATION FOR SEQ ID NO: 5678:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 386  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06745

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5678:

GATCACAAT TAATGTTGGG GAAAATAAAG ATTTAATATT TCTTTAAATA GAAAAAGAAT 60  
 TTGGTTTTCC TCGTTTAAGA GCAATGAGAA AATNATGGAA TGTTGACTGT NTTTGGCACA 120  
 CAGGACACGN ACCTTCATGG AAGTCCTTGC TCTGCGTGGC ATCTGTCAGC TTTNCACCTT 180  
 TCATTCTTAT TCTTCACTTT TGCTGCTGAG CCTAGCTGTA CAAACTTNGC ACTTTCATTT 240  
 GCTAATATAA ATTCAGTTTT ATTNTACCAT TTTAGAGACT ACTAATGGTT AANTGTAGAA 300  
 GGNGNGGGGT GNACATGTTT TTATGTNGNG TGTTTNAAG GATATGTTTT NTNACCCCN 360  
 GTNATGGTGG CAGCTTTNTN TTTTNN 386

(2) INFORMATION FOR SEQ ID NO: 5679:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 260  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06746

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5679:

GATCCAGGAA GCGGCTGGAG ACATTCTCTGA GCCTCCTGGT CCAAAACCTG GCACCTGCAG 60  
 AGACGCATAC CTAGAGGAAC TCTAACCCCG GTGTACCTGT ATAAACTGAA CTGTGAAACT 120  
 GTTTCGGTTA TCTCTGTCTT TTGAGGATGG CTTTGTCTCTG TTGCTGGTTA ACATTACCT 180  
 TCCTCTTTTG AGGAGTATTT TTCCATTATG TATTCATAAT AATGTTAATT TCAATAAATG 240  
 ACATTCATGC AGCAATTAAA 260

## (2) INFORMATION FOR SEQ ID NO: 5680:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 183
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06747

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5680:

```
GATCAACATT CCAGGGTTGG TAATGTTGGA TGATGAAACA TTCATTTTTC CCTTGTGGAT 60
GCTAGTGCTG TAGAGTTCAC TGTTGTACAC AGTCTGTTTT CTATTTGTTA AGAAAAAGNTA 120
CAGCATCATT GCATAATTCT TGATGGTAAT AAATTTGAAT AATCAGATTT CTTACAAACC 180
AAA 183
```

## (2) INFORMATION FOR SEQ ID NO: 5681:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 124
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06749

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5681:

```
GATCTCACTA TAGAGGCATC ACTAATTGGG GAAAGACAGA CTAGGTAATA GTCAGATGTN 60
ATATAGTATG TTTAANCTAT AGGATGGCAG GTNCATGANT NTTGGTTGTA TTATCCTTTA 120
TNTN 124
```

## (2) INFORMATION FOR SEQ ID NO: 5682:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 268
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06750

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5682:

```
GATCTGAAGT TGCAGGTTAA GCTTGTTNTGG TCAACATTCC AGTGTGGAAA AATAATTTAA 60
ACAATCTTAT TCTCTTAATT CTTTTGGCAA CAAAACTAT TAGTAATAGC TATTTGGGAC 120
CAGACAAAAT CAGCTTTCAT CTATAATTCA TTGGGGATAA TGGGAGATTT AGATAATGTA 180
TCCNGATTTA AACCTACCAG TTTGTCCTAC CCCTTANGCG TTTAANATAA ANTATGCANC 240
AAATTTGGNG GNANGNNGTG TGNNGTTN 268
```

## (2) INFORMATION FOR SEQ ID NO: 5683:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 127
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06751

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5683:

```
GATCAATGCA AAAATTGTTA TATATGAACA TATAACTGGA GTCGTCAAAA AGCAAATTAA 60
GAAAGATTGT GACGTTAGAA GTTGTCATTT AAAGCAGCCT TCTAATAAAG TTNTTTCAAA 120
GCTGAAA 127
```

(2) INFORMATION FOR SEQ ID NO: 5684:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 221

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06752

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5684:

```
GATCTTTACA ATTACAGTGT AGTAGACAAT TCGGAATTAA TTTGAAACAC ATCACAACAT 60
AACTTGAGAA AATTCCTAN TGTATATGTA GTGGTAATAA ATGTTTAAAG GCTGCAAGGA 120
TTGCATTATA AANNCTGTTT GTNGGCTTTC TAAGTCTTTN ATNCCTGTAT TGGGANTAAN 180
CAGATTTNAG AAAATGGATA TAAGCTGANA TGTATATTTN N 221
```

(2) INFORMATION FOR SEQ ID NO: 5685:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 146

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06753

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5685:

```
GATCATAAAT TTTTCTCAGT GTCCTTTTTG TGTGAACAC ATATATCTGA AACCTGTATT 60
TAACCAGATA TTTCTACTCA ACTGAATATA CAAGTGTAAT TTTGATTGGA AAATTGTATA 120
TTATAAATGA AAATACAATA ATCAAA 146
```

(2) INFORMATION FOR SEQ ID NO: 5686:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 344

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06754

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5686:

```
GATCCACCCA CCTCGACCTC CCAAAGTGCT GGGATTACAG ATGTAAGCCA CCGTGCCTGG 60
CCAAAGTTTT CTAATACCTG TTTATAATCC CTTTCTTTGT CCTCAGGTAA CACTATCTAC 120
```

TACGTGTCTC TNCAGATTAG CTTGCATTTT CTAGAATCTA ACTTATATAA TTAAAAATAAT 180  
 ATAGTATATA CCCTTCTTTT GGCTTTCTTT ATTACAGCTAT GTTGTGAGAT TCATTCATGT 240  
 TGTTTAGAGT ATCAGTTACT AAGTAGTATT CCATTTTNGG CTATATCAAA NNTNGTTTGN 300  
 CCATTTACCT ATTAANGGGC ATTTNGCACT GGNTCCAGNN TGAN 344

## (2) INFORMATION FOR SEQ ID NO: 5687:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 132
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06755

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5687:

GATCTCTGTT TTGACTAAAC TAGAGGAAAA ATNATTGGAT GTGTTTATTC TTTTCTAAGC 60  
 AGAATGGTTT AACTTTGTAC TCTTTGAAAA ATAATGCTGA TTTATAAATC TCTGCCTATA 120  
 NCAGAATGGA AA 132

## (2) INFORMATION FOR SEQ ID NO: 5688:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 244
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06756

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5688:

GATCCTGCTG TGGCACGGGG CCTATGTGTC TCTGTCGCGT CTGCTGTGAA GACATGATGC 60  
 TCTATTTATT GTAGAGAGTG ACTTTATTTG CTTTCTAGAA TTGTTTATAA CAGATGGTAT 120  
 AAGAGAGGTA ATAAACAGAG AAAAATCTAT GCTTGTAAG AATACAAAAG TTAATTTTAC 180  
 CTACTATAAT ATGGCTGGCT GAANCTTATT TCCTCTCTNN GNAATAAATG TTCTANTGGG 240  
 CAAA 244

## (2) INFORMATION FOR SEQ ID NO: 5689:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 143
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06757

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5689:

GATCTTNTCT ATACCATTTA ATGTAGAAAA ACTAATTTTC TATAATTNTN TCTATTAAAG 60  
 GTGACATTAA TGCTGATAGA AAAATATTCC CACATATATC TNACTTGGA AACTTATAAA 120  
 AATTGTGCTG TCTTTAAAT AAA 143

## (2) INFORMATION FOR SEQ ID NO: 5690:

## (i) SEQUENCE CHARACTERISTICS:



- (A) LENGTH: 219
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS06758
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5690:

```

GATCGCAAAG GGATTGTTCT TATAAAAGTG GCATAAATAA ATGCATCATT TTTAGGAGTA 60
TAGACAGATA TATCTTATTG TGGGGAGGGG AAAGAAATCC ATCTGCTCAT GAAGCACTTC 120
TGAAAATATA GGTGATTGCC TGAATGTCGA AGNTCTACTT TTGTCTATAA AACACTATAT 180
AAATGANTTT TAATAAATTT TTGCTTCAGC ACTTGGA 219

```

## (2) INFORMATION FOR SEQ ID NO: 5691:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 292
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06759

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5691:

```

GATCTAGATG AGATTACCCA TAGCAGGGAA AATAATTCAT CACCTACCAA AGACTGTACG 60
GAAAGGTGTG TTATTTTCAA AATTGCATTT TAGTTTGCAC ACATGTAAAT NATTATCCTA 120
TGTTAATCTA ATTGACAATT CANTTAGCTC CGCATCCTAA GACTTAAAC TAGCAATTCC 180
TATGCAAATC ATCTGCTTAA CTGANCTACA AACGTTTTTC ATTAATTCAT TCTTTGATGA 240
CATATTCCAT GTTATATANT ANTNCANAAT AAAGTTAATA TACTACCCCA AA 292

```

## (2) INFORMATION FOR SEQ ID NO: 5692:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 330
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06760

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5692:

```

GATCCTCTCG CTTGTTCACT GGGGCATGTA CAGTGGGCAC GGGAAGCTGG AATTCGTATG 60
ACGGAGCTTA TCTGAACTAC ACTTACTGAA CAGCTTGAAG GCCTTTTGAG TTCTGCTGGA 120
CAGGAGCACT TTATCTGAAG ACAAATCAT TTAATCATCT TTGAGAGACA AAATGACCTC 180
TGCAAACAGA ATCTTGATA TTTCTTCTGA AGGATTATTT GCACAGACTT AAATACAGTT 240
AAATGTGTTA TTTGCTTTTA AAATTATAAA AAGCANAGAG AAGNCTTTGT ACACACTGTC 300
ACCAGGGTTA TTTGCATCCA AGGGAGCTTN 330

```

## (2) INFORMATION FOR SEQ ID NO: 5693:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 143
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single

(D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06762  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5693:  
 GATCANAGGT CTTGAGGTCT TTACATCTTG ACATATACAC TGAAAAAAAAAN GGGGGTTGTA 60  
 TGTATNAATG TGCTACCCAA ACCTNTGGCC GCCACTTTTA AATTCTCAGA TTGCCCTGAA 120  
 TTTTGNCAC TTNAAATAAT GNN 143

(2) INFORMATION FOR SEQ ID NO: 5694:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 273  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06763  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5694:  
 GATCTTAATG CTTCTCCTGC TCTGTAAGCC TCTNAAGAGC AATATCTAAT TAATTATTAC 60  
 TGTAATTTTT TAAAAGGCTT TAAAGTGCCT CAGGGGTCCC CTGAAACTAA TTTCCTATTT 120  
 CTGGGATTCC CTGGATTCAT TATATGMNAT GGTGACATGA TTAGAGGAAT TCNTTTTAAG 180  
 TATGAAANTT GTCCCTTTCC TNCTTCAGTA CTTGCCTCCT NGCTGGCATT GANTTAACAC 240  
 AGGGACAAAA TTTGGTTAAT TNNTNATTNC NAN 273

(2) INFORMATION FOR SEQ ID NO: 5695:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 337  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06764  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5695:  
 GATCTGTACT ACAGGAACCA AATGTCATGC GTCATACATG TGGGTATAAA GTACATAAAA 60  
 TATATCTAAC TATTCATAAT GTGGGGTGGG TAATACTGTC TGTGAAATAA TGTAAGANGC 120  
 TTTTCACTTA AAAAAAATGC ATTACTTTCA CTTANCACTA GACACCAGGT CGAAAAATTTT 180  
 CAAGGTTATA GTACTTATTT CAGCANTTCT TAGAGATGCT AGCTAGTGTT GAAGCTAAAA 240  
 NTAGCTTTAT TTATGCTGGG NTGGTGATTT NTTTATGNCA AAATTTTNT AGNGCGAANC 300  
 ATGTGGTGGN TAGCTTGGNN ATGAANGAAT TNTGNCN 337

(2) INFORMATION FOR SEQ ID NO: 5696:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 290  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06765  
 (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5696:

```
GATCTAGAAG TTGCAACATT CGTTTGATAG GAATTCCAGA AAAGNAGAGT TATGAGAATA 60
GGGCAGAGGA CATAATTAAA GAAATAATTG ATGAAANCTT TGCAGAACTA AAGAAAAGTT 120
CAAGTCNCGA GATTGTCAGT GCTTGTCGAG TACCTAGTAA AATNGNATGA AAAGAGGCTG 180
GCTCCTAGGC ACATCTTGGT GAAATTTTGG AATTCTAGT GATAAAGGGG AAATNATAAG 240
GGCTNCTAGN GGGNGANGGG AATTNCNTGC CAGGGANCAG GNTCAGTTGN 290
```

(2) INFORMATION FOR SEQ ID NO: 5697:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 393  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06766

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5697:

```
GATCATTCCT GTATTAAACT TTCATATGCC AAAAGGGTTT GTCCCGTTTN ATCTGCCATC 60
AGTGTTTGAC CTGTTTAGGG CAGAGGCAAT AAGTCAGAAG TCTTGAAGTT GAAATAGTTA 120
TATGTGTGTC ATTGGACTGG ATTATAAACA GCTGTCTTGG ACTTTCCCTC TCTTAACACT 180
GACTGGTNAT CAGTATCATT AGTGAAAAAG NAAGCAAATT GTTTGTNATC ATCTCTTTAG 240
NCAGGTAAGC TGGAATGGGT GGGGCTTTAA ATAATANAAN CATGCGCATN GTTGGCTTGT 300
GTATGGGCCT NCTCTTGGGA TTCCTNGTNG TNATGGGCTT GGTATTTTGG GTNCNTGATT 360
TTGTCCANNG GCANTNCCAG GTGGGTGCCA NCN 393
```

(2) INFORMATION FOR SEQ ID NO: 5698:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 176  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06767

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5698:

```
GATCCANGNT AAGAGGCNCC CCCCCGACCA GCAGAGGCTC ATCTTTGCAG GCAAGCAGCT 60
GGAAGATGGC CGCACTCTTT CTGACTACAA CATCCAGAAA GAGTCGACCC TCAACCTGGT 120
CCTGCGCCTA NGGGTTGCTG TAAATCTTCA ATCAATGCAA TNNCNATGCC CATNAN 176
```

(2) INFORMATION FOR SEQ ID NO: 5699:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 178  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06768

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5699:

```
GATCTACTCA GACAGGACCT TCGCACCTTT GCCAGAGTTT GAGCAGGAAG AGGATGATGG 60
```

TGAGGTAAC T GAGGACTCTG ATGAAGACTT TATACAGCCC CGNAGAAAAC GCCTAAAGTC 120  
 AGATGAGAGA CCAGTACATA TAAAGTAAAA TNACATGGAT TTAAATCAAT TGTTTAAA 178

(2) INFORMATION FOR SEQ ID NO: 5700:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 233  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06769

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5700:

GATCGTTTCT TTAGAAAAGT GGCATTGGCT TTTGAATATG AAATCTTCTC ATAGCTGCCT 60  
 AAAAAAGACT AGAATGTATA TGGATATCAG AAACCTTTAA TAATACATAA TTTATGCAAA 120  
 GATAAGATAA AGCAACATAA CACTAATTAT AAAACTATTT TTAAATCCCC ATTTTAAATG 180  
 ATAANTATAC ATTTNTATTT AATTTCTTTT GANTAAAACA NTTGTAAAGT AAA 233

(2) INFORMATION FOR SEQ ID NO: 5701:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 374  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06770

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5701:

GATCTTCATC TGAATATGAC ATAAAAACAA CTTTATACCC AGAAAGTTAT TGATAAGTTC 60  
 ATACATTGTA CGAAGAGTAT TTTTGACAGA NTATGTTTCA AACTTTGGAA CAAGATGGTT 120  
 CTAGCATGGC ATATTTTTCAT CATATCTAGT ATGAAATTAT ATAAGTNTTC TAAATTTTAT 180  
 ATCTNGTAGC TTTATCAAAG GGTGNNANTT ATTTNNTTCA TACATATTTT NGTAGCACTG 240  
 ACAGATTTCC ATCCTNGTCA CTACCTTCAT GCATAGGTTT NGCAGTATAG TGGCGCCACT 300  
 GTTTTGAATC TNATAATTNA TACAGGTCAT ATTANTNTAT NGCCCTTAAA AAANATCAGT 360  
 TGTTCAGNG GAAN 374

(2) INFORMATION FOR SEQ ID NO: 5702:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 452  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06771

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5702:

GATCCTCCTG CCTCAGCCTC CTGAGTAGAC GGATTATAGG CACCTTGCCC AGCTTCTATA 60  
 GCAGCATTTT TTTCTAACAC CTAAAAAATG GAAACAAGCC AAATGCTCAT CCACTGGTAA 120  
 ATGGATAAAC AAAGTGTAGT CTTTCTATAC ACTGGAATAT TTGGCTATAA AANAGANTGA 180  
 NATATTGATA CATGCTACAA CATTGATGAN CTTCAAAAAC ATGCTAAGAG AAAGCCAGTC 240  
 ACAGAANAAT ACATNGTATT CTATAAGAAT GTCTAGGGAN CGTNAATCTA TATNGGCAGA 300

AGGTAGGTTN GTGGTTGCCT AGGGCCCCGGG GGGAAGGGGT TAGGGGGCCT NGGGGGTGNC 360  
 AGCTTATGGG GCTGCTAATN GGGCCTNCCG NTTCTCTTTN GGGGGTTGGT ACCCTGCTAA 420  
 ATTGNCCTNN TTGGCNTGGT TTTNNCCCCG GN 452

(2) INFORMATION FOR SEQ ID NO: 5703:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 257  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06772

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5703:

GATCTGTCTG TGCACATGCC TCTGTAGAGA GCAGCATTC CAGGGACCTT GGAAACAGTT 60  
 GACACTGTAA GGTGCTTGCT CCCAAGACA CATCTAAAA GGTGTTGTAA TGGTGAAAA 120  
 GTCTTCCTTC TTTATTGCCC CTTCTTATTT ATGTGAACAA CTGTTTGTCT TTTTTTGTAT 180  
 CTTTTTTAAA CTGTAAAGTT CAATTGTGAA AATGAATATC ATGCAAATAA ATTATGCAAT 240  
 TTTTTTTTCA AAGTAAA 257

(2) INFORMATION FOR SEQ ID NO: 5704:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 77  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06773

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5704:

GATCANGAAG CTATTTTCNA TTCTGGGGAA CGATTATAAC TTAAATNATT GTTTTAATAA 60  
 AAATTCTAAG CTGGAAA 77

(2) INFORMATION FOR SEQ ID NO: 5705:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 278  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06774

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5705:

GATCCAATTT CTTTGTGGTA CCTGCAGTTT ACAAATAAT TTGACTTCAG TGAGCATATT 60  
 GGTATCTGGA TGTTCCAATT TAGAACTAAA CCATATTTNT TACAAAAAGA TATTAATCCC 120  
 TCTACTCCCA GGTTCCCTTT ATATGTTAAG ATATAATGGC TTTGAGGGGG GAAAAATAA 180  
 ACCTAGGGGA GAGGGGAGTT TCCTGTAGTG CTGTTTCATT AGAGGATTC AGTAAATTA 240  
 ATTCCACAGC TAATTGAATA AATAATGGNA CCTTTAAA 278

(2) INFORMATION FOR SEQ ID NO: 5706:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 308  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06775  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5706:  
 GATCTGCATA TNATGTATTA GGTTAGGTCA CAAAGGTTTT ATCTGAGGTG ATTTAAATAA 60  
 CTCCTGATT GGAGTGTGTA AGCTGACCNA TTTCTAATAA AATTTTAGTT GTACACTTTT 120  
 AGTNGTCATA GTGAAGCAGG TCTAGAAAAT AAGCCTTTGG CAGGGAAAAA GGGCAATGTT 180  
 GATTAANCTC AGTATTAANC CACATTANTC TGTATCCCAT TGTCTGGCTT TTGTAAATNC 240  
 ATCCAGGNCA AGNCTAAGTA TGTTGGTTAA TAGGNATCCT TTTTTTTTTT TTNAANGCCT 300  
 AANNGGGN 308

(2) INFORMATION FOR SEQ ID NO: 5707:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 104  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06776  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5707:  
 GATCGTAACC CCTTGTGAC TAATCTNGCC GTGGTTTTGT NTAGGTCTGC AGGAAGGAAG 60  
 NCTNAAAAAG CGGACGAAGA TTTTNACTTA AGTGGGACTT TGTN 104

(2) INFORMATION FOR SEQ ID NO: 5708:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 137  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06777  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5708:  
 GATCCTAGTA AGTCANTNGT AGTTTACTGG TGANGTGAGC ATTNTAGATT CCCCNTTAT 60  
 CACTAATCAC ACAACAATTT TAAGAAGTAG GCTATAAAC AAAAAAAGGT TGCTGTTTTT 120  
 TATTTTAA TAAACNN 137

(2) INFORMATION FOR SEQ ID NO: 5709:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 333  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06778  
 (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5709:

```
GATCTCATTT GCTGGAATGA TTGATTTAAG AGTAAAATTA GCCACTGCGT NTGTNTNGTG 60
TATAGTAACC GGTNTTNTTG CACTTGTCTG TGGCTGAAAC ACTTACCTGC AGTGGAAAGC 120
CGTGCAAGGA GGAGGTAAAC ATTGGAGATG TTTGTNAAAA TATTACTCTT GCTGTGAGGT 180
TTTAGTTTGT TTTGAATGAG AAAAGACTAA GTAACCTAAT CCATCTCAAT GTAGTGT TTT 240
AATANNNGG GNNCCTAATA TTTGANATGG GTCTCAGACA TGTCTACAAA TATGGGTACT 300
ATTTTNTGTC CCGTGTATTT TCACATTNA NAN 333
```

(2) INFORMATION FOR SEQ ID NO: 5710:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 126  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06780

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5710:

```
GATCCTTATA AATNAGAAAC ATGCAAGCTT CAGCTGCTCG AGTTCTATAG TGTCACCTAA 60
ATCGTATGTG TATGATACAT AAGGTTATGT ATTAATTGTA GCCCGGTGNN CNTCGNGGGN 120
ACCTTN 126
```

(2) INFORMATION FOR SEQ ID NO: 5711:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 133  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06781

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5711:

```
GATCCGGCAA ACAACCACC GCTGGTAGCG CGTTTGTNTT TGTTTGCAAG CTTCAGCTGC 60
TCGANTTCTA TANNGCCACC TAAATCGTAT GTGTATGATA CATAAGGTTA TGTATTAATT 120
GTAGNCGTTN GCN 133
```

(2) INFORMATION FOR SEQ ID NO: 5712:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 116  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06783

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5712:

```
GATCCTTTTA AATNAAAAAT AAAGTTTTAA AAAAAACAT GCAAGCTTCA GCTGCTCGAG 60
TTCTATAGTG TCACCTAAAT CGTATGTGTA TGATACATAA GGTTATGTAT NCMNNN 116
```

(2) INFORMATION FOR SEQ ID NO: 5713:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 268  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06784  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5713:  
 GATCTTCTCA ATGGGTGGNC TCCTGGTATT CGTGGGACCA CCTGTGGGCA CAGGAGCCAA 60  
 TGTGGTTCAG ACAGCTGGGC AGAGGGAGCT GCTAGTCAGC TGTTTGCCCA CACTCTGCCT 120  
 GTCATGGTGA TTTGNACCCT ACCCCCCTGG TCCCAGNGNC CTGGGGCTCA CTTGATACCG 180  
 TTGAAAGTAA GCACAGNCTG CATGTNCTCA GGNAGGNCCT GGGGCTCAGG GCACTCGAAG 240  
 NCATCAATGN TGGGNACANT GTTNTTGN 268

(2) INFORMATION FOR SEQ ID NO: 5714:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 129  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06785  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5714:  
 GATCTCAGAA TACAAATTTA AATAAATTAA TTAAATTCTC AAAACACCCT TGATTGGAAC 60  
 TTACAGCTGG CCCTCTGTAT TCGTGGGTTC AACCAATCAC TAATTAAAAA TATTGGAAAC 120  
 AANNNNNNN 129

(2) INFORMATION FOR SEQ ID NO: 5715:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 214  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06786  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5715:  
 GATCCTGCAT TTATGGTGTA GTTCTGAGTC CTGAGACTTT TCTGCCGTGAT GGCTATGCCT 60  
 TGCACACAGG TGTTGGTGAT GGGGCTGTTG AGATGCCTGT TGAAGGTACA TCGTTTGCAA 120  
 ATGTCAGTTT CCTCTCCTGT CCGTGTGTTT TTAGTACTTT TATAATGAAA AGAAACAAGA 180  
 TTGTTTGGGA TTGGAAGTAA AGATTAAAC CAAA 214

(2) INFORMATION FOR SEQ ID NO: 5716:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 253  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:



(B) CLONE: HUMGS06787

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5716:

```
GATCTAATCC CTTCAAGGAA GTGATAACAC TGGAGTGGTA ACAAGAGGAG CAGGAAGCAA 60
GGCCAGCCCT GGTTCCTCCAT CCCCATGTGT TTCAGGTGGA ACAGGAGGAA CTGGNCCAGG 120
CCAGGCCTCA TCCTCCTGGA CCCAGCAGGG GCAGAAGGAG GAAGGGACTG GTCCAGGCAT 180
GGGTCCCTTC CCNNTGCTCC ATGGGCANCT CTGCTGTATT GATATCACTA GTAAAGTCTG 240
TCTGCACTGC AAA 253
```

(2) INFORMATION FOR SEQ ID NO: 5717:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 332  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06788

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5717:

```
GATCATGTCT TTCAGAATCC ATGTACATAT AGGCTGTNCT AGCCACAGTG GTAGATTTAT 60
GATTCACATC CGAAAGTGTG CCTTAGTTAT CAATTTAACA TTTCTCTAGT ATTCATATCC 120
CTTTCCTTAC CATATACCTC AGTGTATCCT TCCTGTGTCA AGCCTTATAA ATCATGTAAT 180
TTAGTGCCAC TCATGTAAAT CAGTAAAATC ACAAAGGTCT ATTTAATGAA AACGATTTAC 240
CAATGTTGTT TTTTTTTAAC AGGANAAGNA NTAGNAGCAC NTTGTCATTT TTNAGANGGN 300
GGNNTTGTG GGNNGTGGGG GGNNGNTTG GN 332
```

(2) INFORMATION FOR SEQ ID NO: 5718:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 284  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06789

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5718:

```
GATCATGCCA CTGCACTCCA GCCTGGGCAA CCAGGTGAGA CCCTGCCTCA AAAATAATAC 60
AATAAAAAGT AAAAGCAGCC CTGGGGAAAT GGAGACAGTG GACAAAGCAG GCTGGGGCAC 120
CAGGTGTGCA TGTGGGTGTG AGTCTGTCAT GAGAGCTGTC CTGANTGCCC TTAACGCCAC 180
TGAAGTGTAT GCTGGAAAAC AGTGACAACA GTGGATTTTG TTATATAGAC AATTANANN 240
GTATANCACC CAGAAANANT GTGTGNNTGT TGGGNNGTGG TGNN 284
```

(2) INFORMATION FOR SEQ ID NO: 5719:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 253  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06790

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5719:

```
GATCTTTAAC TCCTCCTGGC TGCACCTGGG TAGGGATGGT GGCATCGATG CCCCTCTGTC 60
TGCTGAAGGA CCTGTTGCTG CTTCTGTCTT TTCACCCCTC CTTGGCTGAT GACCCAGAGC 120
CCTCTGATGA TGGCATTCTC CTGGCAAGAG AAAAAGACTT AACTAGACTT CTGAACTTGA 180
ACAGTTTCAG GTTATATTTT AATTTTNNNT TTTTGTGAC NGGTNCNGAT NCTAATACAT 240
TNCACCNNGC AAA 253
```

(2) INFORMATION FOR SEQ ID NO: 5720:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 389  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06791

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5720:

```
GATCCACCCA CCTCGGCCCC ACAAGTGCT AGGATTACAG GTGTGAGCCA CCATGCCCCG 60
CCCAGAATAC TTTTAAAAG AAGAGCAGGT TAGAGGAAAG AAAAAAATTG ATGCTGAATG 120
TGGTGATGAA AGCATGTTTC TAAAATGGGA AGCAGATGCT TAANGAGGAA AGACTAATCT 180
GGGATTTTGC CCCATTTCTC TGGNTTTTCA CTCCTATATT TNATTCTCAC AATCGTGTGC 240
TCACATAGTG CANAANACAN ATTTCTTGTA AAGTCCCCAG GGGTTTATGC TTGGGTGAAA 300
GTTTTCAGCT GAGTATTTT CTTNCTCTAA AAANAGGTGG GGANTGNGNC ATTTGAGGNT 360
NTTNACCTTT TAATTGTNCT GCTATNGGN 389
```

(2) INFORMATION FOR SEQ ID NO: 5721:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 174  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06792

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5721:

```
GATCTGGTTG GGGTTTTGGG TTTTGTGTTG TTGTTGTTTA TTTGTTATTT TAAAGGTAAA 60
TTGCACTTTT AAAAAATAA TTGGTTGACT TAATATATTN NCTTTTTTNC TCACCTGCAC 120
TTAGAGGAAA TTTGAACAAG TTGGAAAAAA ACANNNTTNG TTTCAATTCT ANG 174
```

(2) INFORMATION FOR SEQ ID NO: 5722:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 367  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06794

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5722:

```
GATCCTATGT TGCTGGAAGT TGCCAAACAG GATGTTGTGC TCAATNACCC CATGTGAGTG 60
```

```

CGTGGACTCC TGGGAGCTCC TGCTCCNTAC AGTGGGCTGC AACTCCTGTA CTTGAAGCTG 120
AGACCTCATA TGACGTGGCC TTCGTGTTGT CAGAGAGTGT CTGGAAGCTG CTGTTGCCAT 180
CTTGAACAAC TCACCAACCT CCAACCCAGA GCCCCAGTGA GAGAGGAGCA TTTGGCCTCC 240
TGCTTCCTTC TGTGGCCTCT GCCGGGCTCC ATTNCCAAGG AAAAGAGAGG AGCTTGGGCT 300
CACAGAAAGA GAAGGGGATG AAACCCCAAG NGGCCCTATC TTTTGGGATT TACATGGGAT 360
TTTTATN 367

```

## (2) INFORMATION FOR SEQ ID NO: 5723:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 311
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06795

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5723:

```

GATCCTGAGT AATCCTTTTA GAGCCCGAAG AGTCAAAACC CTCAATGTTT CCTCCTGCTC 60
TCCTGCCCCA TGTC AACAAA TTTCAGGCTA AGGATGCCCC AGACCCAGGG CTCTAACCTT 120
GTATGCGGGC AGGCCAGGG AGCAGGCAGC AGTGTTCTTC CCCTCAGAGT GACTTGGGGA 180
GGGAGAAATA GGAGGAGACG TCCAGCTCTG TCCTCTCTNN NNNCTCCTNC CTTTCAGTGTC 240
CTGAGGAACA GGACTTTCTC CACATTGTTT TGTNTTGCAA CATTTTGCAT TAAAAGGAAA 300
ATCCACTGAA A 311

```

## (2) INFORMATION FOR SEQ ID NO: 5724:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 342
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06796

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5724:

```

GATCCTCCGG CCTCAGCTGG TCTACAGGCG GGTAATCAAG GGACTGGGAC TACAGGCGCG 60
CCCTGCCGCG CCGGGACAAG TTTTGTATTT TTAGTAGAGA CAGACTCTCC CTGTGTTGCC 120
CAGGCTGGTC TCCAACCTCT GGGCCTCCCA AAGTGTTGGG ATTACAGGCG TGAGTCACCC 180
CTGCAGGCCA CAGCTTTGCT TTTTAAAAGC ATTTCTGCAT AACTAAAAAG ACAGGAAATT 240
ACGAGCATAC GGNAACTGAT TTCTGCTTTC CTGAATTTTC TAAATGTATT TAATGGGCAT 300
GGTTCTTTTG CAATGAAAAA GTAATANATT NGGGTNTCAT CN 342

```

## (2) INFORMATION FOR SEQ ID NO: 5725:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 312
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06797

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5725:

```

GATCCGCCGA CCTCGGCCTC CCAAAGTGCT GGAATTACAG GCGTGAGCAC GTGCGCCTGG 60
CCAAGAATGG ACATTTTTTA AAAAAACATC AGTACTTCCT ACCACTGCTG CATGAGTATA 120
ATGCTCCGGA ATTATCAGAA AGCATAATGC AGAAATACGA ATTAGTGGAA CTTAATCATG 180
TGCCATATAA GCTTACCTAA CAAACAGTTA TATCCCTATT CCTCAACTGA ATGTCTTTTA 240
ATAAATNAGA NTTTATCATT TNNGTANGG GTGNGTGTGN GGNTGGNNGG GGGGGGGGNG 300
GGGNNGGGGN GN 312

```

## (2) INFORMATION FOR SEQ ID NO: 5726:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 132
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

```

(B) CLONE: HUMGS06798

```

## (ix) FEATURE:

```

(D) OTHER INFORMATION: "N"=unidentified base

```

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5726:

```

GATCCTAGGC TCCCTCCATC CCTGGTATGT GGTCTTCATT TTCATATAGA CCAAGAGCTA 60
GAGCTCCAGT TACCATTCT TAAAGTATAT TTTAATGCCA AATAGTGAAT AAAGGTGGCC 120
AGAAAATTCA AA 132

```

## (2) INFORMATION FOR SEQ ID NO: 5727:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 135
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

```

(B) CLONE: HUMGS06800

```

## (ix) FEATURE:

```

(D) OTHER INFORMATION: "N"=unidentified base

```

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5727:

```

GATCANCTAA GGTCAAGAGT TNGAGACCAG CCTGACCAAC ATNGTGAAAC CCTGTCTTTA 60
CTAAAAATAC AAAAATTTAC CAGGCACCTA TAATNCCAGC TACTTCAAAG GCTGAAGCAG 120
GAGAATCACT TGANN 135

```

## (2) INFORMATION FOR SEQ ID NO: 5728:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 334
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

```

(B) CLONE: HUMGS06801

```

## (ix) FEATURE:

```

(D) OTHER INFORMATION: "N"=unidentified base

```

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5728:

```

GATCAGTGGG CCTCCAAGGA GGGNCTGTAA AATGGAGGCC ATTGTGTGAG CCTATCAGAG 60
TTGCTGCAAA CCTGACCCCT GCTCAGTAAA GCACTTGCAA CCGTCTGTNA TGCTGTGACA 120
CATGGCCCCCT CCCCCTGCCA GGAGCTTTGG ACCTAATCCA AGCANNCTCTT TGCCAGAAA 180
GAAGATGGGG GAGGAGGCAG TAATAAAAAG ATTGANGTAT TTTGCTGGAA TANGTTCNGA 240
TTCNTCTGAA CTCAACTGA GGAATTTTAC CTGTNANCCT GNGTCGTACA GANAGCTGCC 300
TGGTNTATCC AAAANGCTTT TTNTTCCTCC TGTN 334

```

## (2) INFORMATION \*FOR SEQ ID NO: 5729:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 158
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06802

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5729:

```
GATCCTGTAA GCAGACTTGG GCAGTCTCCT TTAGAAATAG GTTGTCTGTA CATGTTCTAN 60
GGTNTTGTAG ACACGTGTGA CTGTNTANGT GTATTGATGT GAATANTATT AAATATCCTA 120
ATTATNTAAT TCATTGTATT GTTTCTGNGA AGTTGGGN 158
```

## (2) INFORMATION FOR SEQ ID NO: 5730:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 106
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06803

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5730:

```
GATCCATANA AGAGCTCCTA AAGAAGAACC CACATGAAAA ACTATCAGAA TCATGTTTAA 60
GCTAAACCCA TATNCAAAGA CCAANCNACG NACCACCATT CTTCGN 106
```

## (2) INFORMATION FOR SEQ ID NO: 5731:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06804

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5731:

```
GATCCTGGTG TGTGTATTAT ATAAAGAGAC CCCTCCCTT ATTTTGTGTT TTCCATCCCT 60
CTCCCTTAAC AGGATTGAAA TAAACATGC TTCTGTTTTT GTAAA 105
```

## (2) INFORMATION FOR SEQ ID NO: 5732:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 243
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06805

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5732:

GATCANCAAA ATCCAATTTC ACATGTGGCA CTAGGAAAAT GGAATGCTAT AAAATTAATC 60  
 CCCATCACCC AAGTAGGGAT GCTGGTGCTT TTATACTGAG TCTTTACTGC CAATAAGTGA 120  
 TGCTGGCTGC AAAGGANCAG CTCTACAGAA AGTTTTTGGG TTAGTGTTTC CCTAGCTTAT 180  
 TNCTGCANTG GGGAAAGCCA GTTTCATACC AAAAANGANA ATGNAGGTGN TTATANTGGN 240  
 NNN 243

## (2) INFORMATION FOR SEQ ID NO: 5733:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 194  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06806

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5733:

GATCTCGGTC ACGTGTCCCG GGCGCTGAGG GGAAAGGAAG CGGGCATGAT TGAGACAAT 60  
 GAGGGGGTTC TCTTGATGTA ATGAAATGCA ATTTTATGGT TTGGTGCAA AACTCCTATT 120  
 TTCCAGTAA TTAACCTTAT TTCTAAAGCA TATTTTGATT TGCCATCAAG AGCAATAAAG 180  
 CATTAAATCT TAA 194

## (2) INFORMATION FOR SEQ ID NO: 5734:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 216  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06807

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5734:

GATCTGGGCC CTGAAGTATA TAAGTAGGAA TTTGCAAGAT GGATGAGGTA GAAAANNGTA 60  
 TTTCATATTG TGGAATAAAC AGAGGGAAGA GCCATTTGTC TTATCCCCAA CTCCAGAACT 120  
 CTACTACTCA TGGAGTCTGA CACAAACAAT GTTAATAATC TGTTTNAGTT CTCATNATAG 180  
 GGCACCTGGAN TTGGCTGTAA ANTNC AAAC ACNTNN 216

## (2) INFORMATION FOR SEQ ID NO: 5735:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 133  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06808

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5735:

GATCTTCTAG TTNCTGTGTT GTTTAGACTC AAAGAATCAC AAATNTGTCA GTAACATGTA 60  
 GTTGTTTAGT TATAATTCAG AGTGTACAGA ATGGTAAAN TNCCAATCAG TCAAAAGAGG 120  
 TCAATGANTT ANN 133

## (2) INFORMATION FOR SEQ ID NO: 5736:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 275
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06809

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5736:

```
GATCTTAGCA CCCAACTCTG CTGCCCTTNC TGCTGGGCAG TGCTTNTCCT AAGAGGGGAC 60
TCCCTAAAGG CCAGAGAGAG GGTGCTCATC TCCAGGACCT AGGCCACCTG TCAGCACAAA 120
CAGAACTTAT TCCAGACATA AACATGAGTC TTCTTATTTC AAACACTGGA GCAACTGNTC 180
AAATATCACT CTCCTACTTA CAGGNCTCAN CATACTNGTC ACAGCCCTTT ACTCCCNCTA 240
CATATTTNCC ACANCAACANT GGGGCTCANT NNCCN 275
```

## (2) INFORMATION FOR SEQ ID NO: 5737:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 211
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06810

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5737:

```
GATCATGCTA GTNACTTCCT GCCCCAGGC ACCGTGCCAA ANACTGGATG CCCCCTACTC 60
CTCAGGGGAC TGTCCAGGGC GCCCAGTGGT AGTGAGGGAG AGTGTCTCTG TTCTTTTGCT 120
CAGCCTGCTG GGCCCTTTGT GTTTGAGGAT GCTTAATGAT TCCAGCCTCT CACTGTGCCT 180
TATGCATTAA AATTNCTTTG TTACGAGCAA A 211
```

## (2) INFORMATION FOR SEQ ID NO: 5738:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 133
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06811

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5738:

```
GATCTNCTTT ATAGCCANCT CTCCTCACTT AACAGGTACT TTCTCCAAAA ACCTAAGAAC 60
CAAAGTCTTC CGCTTGCAAC TTGGGATGGT GATATGGCTG TGTCCCCACC CAAATCTCAT 120
CTNCACCTGN NNN 133
```

## (2) INFORMATION FOR SEQ ID NO: 5739:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 169
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06812

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5739:

GATCATCGCA AGGAAGNAGG CAGACAAGAG TAAGGCACAC CTGACTCTTA GGACTAGCAG 60  
 TCAGAACCAG GAGGAAAGNT TTTATTGCTA TGCGGGTAGG TAAGAACAGA TTTACTTAC 120  
 ATCCATATAG TTA CTTAAAG TCCAGTTTTT TGTAAACNN NNTTCTNNN 169

## (2) INFORMATION FOR SEQ ID NO: 5740:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 127  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06813

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5740:

GATCTCTTGT CCACTAAGTA TCTTGTTAAA TGCCAGTATC TCAGTCTTTC TGAAGCCCTG 60  
 AAATGGTAAT TG TAGCATTT CAGAAAATNT CTTTCATTTC AATCAATAAA AAGCTTTTGT 120  
 AAATAAA 127

## (2) INFORMATION FOR SEQ ID NO: 5741:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 179  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06815

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5741:

GATCTTCCAG ATTAGGCTAA ATGTAATGAA AACCTCTTAG GATTATCTGT GGAGCATCAG 60  
 TTTGGGAAGA ATTATTGAAT TATCTTGCAA GAAAAAAGT ATGTCTCACT TTTTGTTAAT 120  
 GTTGCTGCCT CATTGACCTG GGNAAAATGN AACAAACAN TAAGGCAANT GGTAGGAAA 179

## (2) INFORMATION FOR SEQ ID NO: 5742:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 196  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06816

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5742:

GATCAGCCCT NCCCTTCAGC ATCCTCAGNT CCTGNAGCAG AGCCTGGAAG ACACCCTAAT 60  
 GTGGCAGCTG TCTCAAACCT CCAAAGCCC TGAGTTTCAA GTATCCTTGN TAACACGGNC 120  
 ATGACCACTT NCCCCGTGGG CCATGGCAAT TTTNACACAA GCCTGAAAAG ATGTTGTNTC 180  
 TTNTGTTTTT TTCTTN 196



## (2) INFORMATION FOR SEQ ID NO: 5743:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 326
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06817

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5743:

```

GATCCGCAGT CCTAACAGGG TGAGAAAGCA CAAGAGGGGC CAGCTCGGCT GAGGCCTGAG 60
GAGAAATAAT GAGAAGTTTT GTTTCGTTCT TGGGCTGGGG CATCTCAGGA ACAGTGAGGG 120
CAACAAGCTG TCCCTCAGGG ACCCTCACCT GCCCTCCCAT GTGACCAGGC CCTTCCCAGG 180
TGGGGACTGG GGCTTGCTTT ATTAAGTGAG CTCTTGGGCT TTTGAAGTAG GACAGAGGGC 240
CCTGGTTTGG CAGAGAGGAG GCAAGGGAGG GCTTTAGAAC ATCTGAGAAA TGTTAATAAA 300
ATANTTCAGA AANTAGGAAA AAAATN 326

```

## (2) INFORMATION FOR SEQ ID NO: 5744:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06818

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5744:

```

GATCTCGAAC CCTGTCTAGA AGGAATNTAT TTGTTGCTAA ATGTTCACTT TTTATAGTNA 60
TGTCCTGTAT TCTAAACAGT AAAGGGGNTT TATTNCTATC ACAA 105

```

## (2) INFORMATION FOR SEQ ID NO: 5745:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 167
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06819

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5745:

```

GATCTCAGAA GTTTTNAAAA ATAGCAAAGA AGACTGNATT TGGAAANCAT GGTCTACAAT 60
TGGNTGTAA ATNCTGAAGC TATGAAGAAT AAATATTTCA ACTTTGGATT ATGAAACCCC 120
ATTTATGATT TTTTAAATAC ACTTGAAATA AAAATGATTA AACTAAA 167

```

## (2) INFORMATION FOR SEQ ID NO: 5746:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 258
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06820

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5746:

```

GATCTNTAGA ATTNTTATTG TAATTTTCCT ACTTCTTTGA TAAAAGAAAA ATAAGTCAGA 60
TTGTAACTC CAAGATTGAA AAAAAAACT CTTGAAAGAN GATTATNAGT TGTAACNAAT 120
TTGGGGGGTC TGGGCACAGA CATCTAACCT GGTATTGTAA GGCAGAGGCT CCCATTGGAN 180
TGGTAGTGGT CCGGGTCAGT TGTTTCATGGT GTAAGCTTTG CACNGTGTAT TGAACATTNG 240
NAGGNTCTGN CTNGAAAN 258

```

## (2) INFORMATION FOR SEQ ID NO: 5747:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 350  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06821

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5747:

```

GATCCCTGCC CTTNTCAAGA CTTTAGCTNT TCCTTCCATC CGGTGGCCTA TTCCAGGAAT 60
TCCTCTTTTG CTAAATCAG TTGGAGTTTG TNTCTGTTGC TTGTAATCAA GCCTTTATGG 120
CTGCTGGGCT GAGTGACACA AGCACTTTAA TGGCCTGGAG GGACTTTTAA TCAGTGAAGA 180
TGCAATCAGA CAAGTGTTTT NGAAAGAGCA CCCTCGNGAA GGGTGGATGA CAGGGCAGGG 240
CAGGAAGGNC AGGNAGATGG CAGAACGGTG GTGGCTGCAG CCGGGGGTNC AACCAGGANA 300
CTGGTTGGCA AGCTNGGGGC TAGGGGGTAA GGNNTTTTNA GGGGTNGAAN 350

```

## (2) INFORMATION FOR SEQ ID NO: 5748:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 331  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06823

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5748:

```

GATCTTCCAT GTTTTGACGT TTGCAGTCAC ACACAACACC TTAGTTCCTC TAGGGGCTGT 60
ACAGTATTGT GGCATCAGAT AATGCCACCA AAGGAGACAT ATCACTGCTG CTGGGACTTG 120
AACAAAGACA TTTATATGGG TTTATTTTCA TTCTGCCAAA GTAAANCANT ACATCAACAN 180
GAGGAACTC AGNTTTAACC TGTTATTTCT ATGANNTTGG GATGATTGCT TTGTTTATGC 240
ACTTTTTCCT GNCTGTGCAT CCGCCTGTNA GTGTTTTGCC CTNTAGTCCC TCACTAGCCA 300
TGCTTNTGTG NTGGGTTATC ANGGGNGTNN N 331

```

## (2) INFORMATION FOR SEQ ID NO: 5749:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 236  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06824

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5749:

```
GATCGAGGAT ATTTTTTAAG AGGTTCAAGC TTGTGACTGT TAGTAGTGCA AGGATTGTGA 60
TGGGCTCAGT GATTACAAAC AAAGACATGC AAANTACAAC TGTTTAAACA TTTTCAAGGT 120
ATTTTTAAAG GTTTTGTATT GAAACANTGT TTATATTNC TGAGCTCCTA AAAATGGTAG 180
ANTACACATG ANANCTTTTG TTTAGGAAAN GTTANCTTGT TAANTNCTNT TGATTN 236
```

(2) INFORMATION FOR SEQ ID NO: 5750:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 60

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06825

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5750:

```
GATCCACCT TTGCTCCTGA CAACACTCAT TACACTAAAC ACCTCTTGGA TTTGGTGAAA 60
```

(2) INFORMATION FOR SEQ ID NO: 5751:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 129

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06826

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5751:

```
GATCACTGGA TGGATAGCTC AGCCTGGGGC ATTTAGTGTT TTCCCTGGTG ATAAATCCCC 60
AAGGCAGCTG GATTGGGAGC TGGTGGCAAG TTGAAATNAT TAAAAATTGA TTTGTGTGGG 120
ACTGTCAAA 129
```

(2) INFORMATION FOR SEQ ID NO: 5752:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 180

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06827

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5752:

```
GATCTTTGGA CTGAGAATGT TTGGTAACAT AGTCAAGCAT TTGTTAAGCC AAGTGTGGAA 60
ATGTTCACTT TTTAACTTTA CAGTTTTTTT AATGAGCAAT TCTACATTTC TAAGAAAAAA 120
GATACTTCAT TTTTATATAA GGTTACAAC TCTTTATAAA NCTGTATTCA CAATGTCAAA 180
```

(2) INFORMATION FOR SEQ ID NO: 5753:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 119  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06828  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5753:  
 GATCTGGCCT TTTCTTAACA AAATCNGTGC AAAANATGCA GGTGGATGTC CCTAGGTCTG 60  
 TTTTCAAAGA ACTTTTTCCA AGTNCTTGTT TTATTTATTA AGTGTCTACC NNGTAAATN 119

(2) INFORMATION FOR SEQ ID NO: 5754:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 67  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06829  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5754:  
 GATCTCCATA AATNACTTAG TCTTCTATGT ATAGCTATCA AGGAAATAAA ACCAATTTTG 60  
 CCACAAA 67

(2) INFORMATION FOR SEQ ID NO: 5755:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 323  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06830  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5755:  
 GATCAGAACA AAAACACCAC TCTTTAATGG GTCTTTTTTCT TGGCTAGAAG TCTTTCCTCA 60  
 GTTTTTGTTG ACTATCATAC GCTGATTTGT GGGTNATGGA AGGGGGCTAG AGATAACGTT 120  
 TCTCTGTACT TTGGTAAAGN ATGAAGGAGT CAGAGAGGGA ACAGAAAAAG TGAGAGAGTG 180  
 GCCTGCTGAA ATAATAGCCT GCCTCTAAAA GTTGTGACCA GAAAGTATGA TTCATTTGGG 240  
 CCCAGNGGGN GTAANNTATG TTTTNCATN TACCTCCCAT AGNACANGGT GTTNGGAGGG 300  
 NNGGAGTGAG TGTNNTAGAN GGN 323

(2) INFORMATION FOR SEQ ID NO: 5756:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 274  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06831  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5756:

```

GATCAGGTGT CTATAACATT TTTAATTCTC TCTGGAAACA GACTCAGGTT TCTTTGGACC 60
AAATCCAAAA GAACACATAG CTGTAACACA GCTGTAGTTG ACTAGAATGC TCTGTATACT 120
TTATATTAAA AANTGCTTTG CATTCTNCC AGTGCAATGA ANTTCATATG GTGTCCACC 180
TTATTTAATG ATGGTACANT TTAAAATCTT AGTCAACTGC TGTNGAAAGT TTTCTCTATG 240
ANAGTNANGC TGTTTGAAGA ATTNANGNGN TTNN 274

```

## (2) INFORMATION FOR SEQ ID NO: 5757:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 344  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06832

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5757:

```

GATCCGCCCA CCTCGGCCTC CCAAAGTGCT GGGATTACAG GTGTGAGCCA CTGAGCCCAG 60
NCTGTATCCA TGTNTTCTGC ATGTTGATTC AACCAGCTAC ACATGGACAT TGTAAGTAGG 120
CCTATGATGA TTGTGCTGT TCTGAAGATG TACATACCTT TTCTTCTATC ATTATTCCCT 180
AAACANTAGA GTATAACAAC TATTTACACA GCATTTACAT TGTATTGGGT NTTNTANGTA 240
ATCTAAAGAT GGTTTAAAGN ATNCAAGAGG GTATGCATAG GNTATATGCG AATACCACCT 300
CATTTTANAT NGNTGACTTG NGCNTCGANN ATGAGGGGAT NTGN 344

```

## (2) INFORMATION FOR SEQ ID NO: 5758:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 329  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06833

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5758:

```

GATCATGATA CAATTATTTT ATTAAGTCAT GGTAAATAAC AAATGAATCC AGACTTGTCT 60
AACAGATTTT CCATCAACAA ATATTGTTAT GTGCAAAAGT ATTGCCTATG TTGTTTTACA 120
CACCACTGCA TTAAGTAGAA CTGCTGAGAG GACTGTATAT ATGATTTTAA ACCTAAGTTG 180
ATTTTTTTTC TCACTCTTGA AAGGAGTACT TCTTTGTGAA AGCAGTTCTT ACAGCTTTGT 240
TTTCAACCAG CTAAAAATGT TTTGTATATN ACTCTAACCT GTTGTCTCTC ACATTCTGTT 300
GGTNCTGATT GNTGCTGTNT NCTGGTTTN 329

```

## (2) INFORMATION FOR SEQ ID NO: 5759:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 239  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06834

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5759:

GATCTATCCC TGCGGCCTCC ACACCTGAAC TTGCCTAACT AACTGGCAGG GGAGACAGGA 60  
 GCCTAGCGGA NCCAGGCTGG GAGCCCAGAG GGTGGCAAGA ACAGTGGGCG TTGGGAGCCT 120  
 AGCTNCTGCC ACATGGAGCC CCCTCTGNCG GTCGGGCAGC CAGCAGAGGG TNNGTAGCCA 180  
 AGNTGNTTGT NCTGGGGGCT GNCNTGTGT ATTCACCACC AGGTAAATTA GACCATTNN 239

(2) INFORMATION FOR SEQ ID NO: 5760:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 143
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06835

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5760:

GATCAACTTT CCTTCTGTGT GTGGCTCAGN AGTTCTTCTG CAGAGATGGC GCTATCTTTC 60  
 CTCCTCCTGT GATGTCCTGC TCCCAACCAT TTGTACTCTT CATTACAAAA GAAATAAAAA 120  
 TATTAACGTT CACTATGCTG AAA 143

(2) INFORMATION FOR SEQ ID NO: 5761:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 52
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06836

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5761:

GATCGCATCC CACAATGCGA GAATAATAAA ATAAAATTGG ATATTTGAGA AA 52

(2) INFORMATION FOR SEQ ID NO: 5762:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 359
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06837

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5762:

GATCCTCCCG TNTCAGCCTC CTGAGTAGCT GGGATTACAG GCGCACACCA CCAATGCCCA 60  
 GCTAGTTTTT GTNTTTTNNNA TAGAGACGGG GTCTCGCCAT GTCATTCAGG TTGGTCTTGA 120  
 ACTCCTGGGC TCAAGCAGTC TGCCTGCCTT GGNTTCCCAG TGCTGGGATT ACAGGCGTGA 180  
 GCACCGTGCC CGGCTAAAAA GTATTTTNNAA GTTCTGCATA TNGCTTATTT CACTTAACAC 240  
 TATATTAGAG NTTGTTTTAT ANCANTACAT ATAGATATGC TTATCCTTGN TTGACAGTNG 300  
 CATAATTNTT CCANTAAAAT TTGGTTGTAT CNAGGGGCAN TTAACCCAGT TACTTAGNN 359

(2) INFORMATION FOR SEQ ID NO: 5763:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 308

(B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06838  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5763:  
 GATCATNAAG GACATTCGCA ATCTGGAGGA CATCAGGAAG ACCTTACCAT CTGGCTGCTT 60  
 CAACACCCCG TCCATTGAAA AGCCCTAGTC TCTTTAGGGC TGGAAGGCAG CATCCCTCTG 120  
 ACAGGGGGGC AGTTGTGAGG CCACAGAGTG CCTTGACACA AAGATTACAT TTTTCAGACC 180  
 CCCACTCCTC TGCTGCTGTC CATCACTGTC CTTTTTNAAC CAGGAAAAGT CACAGAGTTT 240  
 AAAGAGANGC AAATTAANCA TCCTGANTCG GGNACANAGG GTTTTATCTA ANANNNGGTN 300  
 GNNNGTGN 308

(2) INFORMATION FOR SEQ ID NO: 5764:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 91  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06839  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5764:  
 GATCATAAAT ATTAATAATN AAAACTGAGA AACTATTAC AATGCATTCC TTATAAATAA 60  
 ATGCTACATT TAGTAACTCA TTTCACCCAA A 91

(2) INFORMATION FOR SEQ ID NO: 5765:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 320  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06840  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5765:  
 GATCAGCACA AGTAACAGAA AATNAGCCTG ACGGTGGCTT AAGCAATGGG AATGTTTATC 60  
 TCACATAGCA AAAAGTCTGT AAATAGATGG TTCTAGAGTT GGGTGGAAGC CAAAATGTCA 120  
 TCAGGATTC CTTGGAACCG TCTGCTTTGC CATCCTCAGT ATTGCAGAAT GGCTGCTCCT 180  
 GCGCCAAGCA TCATTCTGCA AATNATGGTG TCCACAGCCA GAGTGGACAG TAGTACAGGN 240  
 GCCTTCTCAT TCTGCCCTTA TCCGGGANTA ACCGTCAGCN GCTCCAGCAA CCTNCCCCCT 300  
 GTCTNTTTAT AGNGTGGGNN 320

(2) INFORMATION FOR SEQ ID NO: 5766:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 320  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06841

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5766:

```
GATCCCACTC TGATTGCATC CATTCTCTG AAAGACTTGT TTGTNCTGCT TCTCTTCATA 60
TAACTGAGCT GGCCTTATCC TTGGCATCCC CCTAAACAAA CAAGAGGTGA CCACCTTATT 120
GTGAGGTTCC ATCCAGCCAA GTTTATGTGG CCTATTGTCT CAGGACTCTC ATCACTCAGA 180
AGNCTGCCTC TGATTTACCC TACAGCTTCA GGCCAGCTG CCCCCAGTC TTTGGGTGGT 240
GCTGTTCTTT TCTGGTGGAT TTAATGCTGA CTCCTGGTA CAAACAGCTG TTGANGCTCA 300
GAGCTGGAGG TGAGCTTCNN 320
```

(2) INFORMATION FOR SEQ ID NO: 5767:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 111  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06842

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5767:

```
GATCCAGTGA CAATNTGCC CCTGCCAGCC TGNGTGTCGT CACTCATCAT TCATTCATCC 60
ATNCTAGAGC CAGGTCTCTG CNTCCCAGAC GCGGCGGGNG CAATGCTCCT N 111
```

(2) INFORMATION FOR SEQ ID NO: 5768:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 256  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06843

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5768:

```
GATCATTCTC TCTGAGGGCA GNTGNCGCGC AGGNAAATAG TCTTGNAAT GTTAAATATG 60
ATGGGTAAAT TAAAAGTTTT ACAACATTCT ACCTAATATT TTNCTTTTAA CATACTTTTT 120
CTGTTCTATT GTATTATGGT GTCCGAAAGC TAAATAACGN CTAGGNAAAA TTTTTTTAAA 180
AAAAGNAAAA TCAGTTTAAT GTGGGNAGTA CTTAAGTGGT ATTATATTN NCATTTTCAC 240
GTATAGTGCA TANAGN 256
```

(2) INFORMATION FOR SEQ ID NO: 5769:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 163  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06844

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5769:

```
GATCGTGTTT ACAGAGGACT TCTTTAAAGT GTCACATTTT TAAAATGTAA ACATATTTTT 60
```



AATGCATACT TAAGTAATAT TTAAGAACT AAACAAAATA ATGATACANT TGCAGTGTG 120  
 TGCTTGTGT CAATGACAAA AATAAAACCA TTTTGGTGGT AAA 163

(2) INFORMATION FOR SEQ ID NO: 5770:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 253
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06845

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5770:

GATCTCCAAG AAGTGACTCT AGCAGAAGAT TTTATGGTGA TAAGCATNCC AATCANGAAA 60  
 TGAAACCAGT GTTCCTGAGT GCACACTGAC ATGTCTGTGA ATATGTTACT GAACCTATAG 120  
 TCCAGTTTTT TNATNTCTTG TTTTAGTCTG AAATNATTTG GGCCCTAATA ATCCTAAAAN 180  
 GAATGGAGCT GCATTGATGA ATGGGCTCAG TATTTAANGG GAGCAAACCT NTNGATAATA 240  
 NNTCTTTTNA GGN 253

(2) INFORMATION FOR SEQ ID NO: 5771:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 137
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06846

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5771:

GATCTGAAAT ACTGACAGNG TTCCCCAAAG TTAGATATTA ACACAGCTTT TNACNTCTCT 60  
 TATGAGAACT TTACTGTAAA TATACCTTTA TCATAGAAAT GAGATATCCA ATACCTNATG 120  
 GNGACTACAA AAAGGNN 137

(2) INFORMATION FOR SEQ ID NO: 5772:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 371
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06848

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5772:

GATCCCAGAG TTCAGCCAGC CTGGGGTCCA GAATCAAGA GTCCGCCTGC TTGGAGCTGG 60  
 ACCCAGCGGC CCANAGTCTA GCCAGCTTGG CTCCAATAGG AGCTCAGTGG CCCTAAGNAG 120  
 ATGGGCCTGG GGTGGGGGCT TATNAGTTGG TGCTAGAGCC AGGGCCATCT GGACTATGCT 180  
 CCATCCCAAG GGCCAAGGGT CAGGGGCCGG GTCCACTCTT TCCCTAGGCT GAGCACCTCT 240  
 AGGCCCTCTA GGTGGGGGAA GNAACTGGA ACCCATGGCA ATAATAGGAG GGTGTCCAGG 300  
 CTTGGGNCCC TNCCCTGGTN CTCCNAGTGT TTTGNTNGGG TAATAANTTG GANCTATGGG 360  
 CTCTNAATTG N 371

## (2) INFORMATION FOR SEQ ID NO: 5773:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 131
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06850

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5773:

GATCGCACAC TACGCTCCAG CCTAGGTGAC AGAGTGAGAC TCCATCTCAA CAACAACAAC 60  
 AACAAAAAAC CACAAAAACT ATATTTTAA TCATGTTTGG TAGCTTGAAA ANTAAATNCT 120  
 TTCTGCCTAA A 131

## (2) INFORMATION FOR SEQ ID NO: 5774:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 254
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06851

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5774:

GATCTGGAAA ANCTGCTGAC AGAGTGGCCA GACACAATAC CACTGTCTTT GGCTCTGGGG 60  
 NCAGTTGGCA TGCCAGGCCT GACTGCCTAC TTTGGCCTAC TTNAATCTG TGGTGTNAAG 120  
 GGTGGAGAAA CAGTGATGGT TAATGCAGCA GCTGGAGCTG TGGGCTCAGT CGTGGGGCAG 180  
 ATTGCAAAGC TCAAGGNTG CAAAGTTNTT GGNGCAGTAG GGTCTNNTGN AAAGNTGCC 240  
 TACCTTNAAG AGGN 254

## (2) INFORMATION FOR SEQ ID NO: 5775:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 346
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06852

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5775:

GATCCTGGTG CTATGGTTTG AATGTCCCCA CCAAACTCA TGTTGAAATT GAATTGCCAT 60  
 TGTTTAAACAG TATAAGGGGT GACTGGGCCA TGTGAGCTCT GCTCTCATGA ATGGATTAAT 120  
 GCCATTGTCA TGGAGTAGGT TAGTTTTCTC TGGCGTGGGC TCCTGGCAAA AGGATGAGTT 180  
 CTGCTGCCAT GCTGTCTGTN TCATGCACTT GCTCACCATG TGAGCCTTCT GCNTCACACA 240  
 GGATGACCCT CACCAGATAC TTGCACCATG CTCTNGGGAC TTTCCCAAGT NTCCAGAGCN 300  
 GTGAGCCAAA TNAACTNGCT NTNCTTTATA AAANANAAAN ANAGTN 346

## (2) INFORMATION FOR SEQ ID NO: 5776:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 336
- (B) TYPE: nucleic acid

(C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06854  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5776:  
 GATCCAGGGT GNCTAAAGAA TAGAAGTAGA GTTCCACCCA GGGCCAGAGG GAACAATCTG 60  
 GGATTCAGAC ACAGCAGTGG TGCCAACGTG AATCTACCTC GTNCTAGAGT CTGAGTAGCC 120  
 TAGTCTATCA CCCAACACAG ATAAGACTGG ACAGGGGCTC CCAGGAACCA ACATCTAAGN 180  
 GGGGAGTTTG GAGAGGGGCT AAAAGAAAGC AGGTTAAGCC CCAANTGTAA CTGATTGATG 240  
 ACCAGGGATA ACTATTTACT AGTGCTTTTN TGGNTTTATT GTAACCTCTGT NACTTTCCCA 300  
 GTATTTGTNA ATTNTTNNNC TTCTGNNTCT CCTGTN 336

(2) INFORMATION FOR SEQ ID NO: 5777:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 65  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06855  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5777:  
 GATCTATTTA GGTGGAAATA GTTGTGGATG TACTAAGAGT AATGAAATAA AATTATAGCT 60  
 TCAAA 65

(2) INFORMATION FOR SEQ ID NO: 5778:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 127  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06856  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5778:  
 GATCTTGNGA CGAACTGAGC CACGAGCGTG GCTTTAAGGG CCGTCCGAAC GCTGCAGGCC 60  
 GGCCAGGTCC CTGGGCGTCC AGGCCTGGCC TACGCACCAC TTTNTCCCTT AGCGTTTAAA 120  
 GGNNNNN 127

(2) INFORMATION FOR SEQ ID NO: 5779:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 118  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06857  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5779:

GATCCTATGT GAAAAGAAAA GTGAAGCAAC TGAATCTTCA GCATGTNCTC ATCGGCGGAC 60  
 CTTCTTGTGT AATGTAAACT GTGCCATGTT ATTAATAAAT GTGAACTAAG CTTCCAAA 118

(2) INFORMATION FOR SEQ ID NO: 5780:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 259
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06858

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5780:

GATCTAGTAT AAACCTCACT TTACTCTTTT GGAATAAAGT GATTGGNTAG GACCCCAT TG 60  
 CCAGGAATAA GANTCAATAT GCTGCTGAGA AGGAACCCAT GGTGTTGANG ATGTTGAAAA 120  
 GACANCACAG TCAGTAACGT GGAGAAATGG CCTGGNTTCA ANTCTTGGCT CTGACACTTG 180  
 GTAGGTATGA GACCTTGGAG ANGTTTCTGN NCCTCTCCAT GCTTCATTTT TNTGANGGTT 240  
 TATTGTGTGG TTTAANTTN 259

(2) INFORMATION FOR SEQ ID NO: 5781:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 171
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06859

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5781:

GATCCTNAGC GGAGGTTAAG ATATTAAGTN ATTTCCATA TGAATCAGAA TTATATTGAT 60  
 TCTGTGCAAT CAAAACAAAA GGCAGANTAG AATGCTGAGA TTGGTTAAGT TTGCAATNAC 120  
 CATCTTGAAC CACAGATTTC TNCTATGTGT CATCAAAACA TCTAGTNNG N 171

(2) INFORMATION FOR SEQ ID NO: 5782:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 114
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06863

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5782:

GATCCTCAGA CCCTGCACAG CCCTGANTGG CTTACATCT NTTGGTCAGT GTCTTCATTC 60  
 TCCCCAGTCA GGGACCTNGG ATGTTTGTTA CTNCCAGAAG CCCTTNCTCA CCCN 114

(2) INFORMATION FOR SEQ ID NO: 5783:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 55
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single

(D) TOPOLOGY: linear  
(vii) IMMEDIATE SOURCE:  
(B) CLONE: HUMGS06864  
(ix) FEATURE:  
(D) OTHER INFORMATION: "N"=unidentified base  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5783:  
GATCACACTG TGAAGATACA CAGAGTCAAT AAATGTGCAC TGTAATGGAC TTAA 55

(2) INFORMATION FOR SEQ ID NO: 5784:  
(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 298  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear  
(vii) IMMEDIATE SOURCE:  
(B) CLONE: HUMGS06865  
(ix) FEATURE:  
(D) OTHER INFORMATION: "N"=unidentified base  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5784:  
GATCCTGGAG AGCTCCAGAG CTTTGCTCAG CGTTCTCANG AGGNAAGCTG GGAACCTGAC 60  
CAAGGCTACA GCCCCAGACC AGAAAAGTAG CGGCGGCAGG GACAGCTGAC CAGACCACGG 120  
GCAGGGCCTG CNTCCNTNTG CCCCTCAGCT CAGCCCCAGC AAGTGTGTGC TCAGAGCATC 180  
TTTGTTCCTC ACGGTAGCAG CTACCTTCCC TCACTGTCTC AGGTGCCGAG AGGGGCAGGT 240  
GCCAGCCTNC ACTGGCATCA NTGACAAGNC CANGGCANGN NCCACCNGNG GGGTCCTN 298

(2) INFORMATION FOR SEQ ID NO: 5785:  
(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 117  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear  
(vii) IMMEDIATE SOURCE:  
(B) CLONE: HUMGS06866  
(ix) FEATURE:  
(D) OTHER INFORMATION: "N"=unidentified base  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5785:  
GATCAATTGA TTGTTTAAAC ATGGAATTTT GAGAAATATT TGGGTAGAAA AAAAAGTAGT 60  
TTTAAAAGAN GAGAATCCAA CCATTAAAC ATCAAAANNT GANATTNTTT GTAAATN 117

(2) INFORMATION FOR SEQ ID NO: 5786:  
(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 358  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear  
(vii) IMMEDIATE SOURCE:  
(B) CLONE: HUMGS06869  
(ix) FEATURE:  
(D) OTHER INFORMATION: "N"=unidentified base  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5786:  
GATCAGCATG TGGACTGCAC TGTTTACTTT TGGTTGGACT GGGACAATTT GGGGAATATC 60  
TACTATGTTT ATTCTTCAAG AACCCATCAT CCCATTAGAT GGAGAAACCT GGAGTTATCT 120  
CATTGCTATA TGTGTCTGTC CTACTGCAGC ATTCTTAGGA GTTTATTATG CCTTGGNCAA 180  
ATTCCATCCA GCTTTGGTTA GCACAGTACA ACATTTGGAG ATTGTGGTAG CTATGGTCTT 240

GCAGCTTCTN GTGCTGCACA TATTCCTAG CATCTATGAT GTTTTTGGAG GGGTAATCAT 300  
TATGATTAGT GTTTTNTCC TTGCTGGCTA TAACTTTAC TGGAGGAATT TAAGAAGN 358

(2) INFORMATION FOR SEQ ID NO: 5787:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 128
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06870

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5787:

GATCTATGGG TAATTTTAAA TTTGCCTGT CAAGCTTAAN AGGGACTTGA CAACAGCTAG 60  
GATNGAAATN ATTTCAACAC TTAAATATGC TTACTTTGTG CCGGACGCTG TTCTAAGNCT 120  
TTNACAAN 128

(2) INFORMATION FOR SEQ ID NO: 5788:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 339
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06871

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5788:

GATCCACCTA CCTTGGCCTC CCAAAGTGCT GGGATTACAG GCGTGAGCAC AGTGCCCGGC 60  
CTGTATTTGG TGATATTTTA AAAAATTCTA CTTTGACCTT AAGTGCTTCA AGAATTGTGT 120  
TCAGTTAGTA GTCCTNTTGG TAAGACTAAC TTTCATATGC TATCTTTGCT CCATGAGCTA 180  
TCATAGTGCT GTTTTCTTTC ATTACCCGTA AGAGTGGCTC TATCACAGCA TTTACTGTTA 240  
AGGGCTACAG TTAGACCTCT TGTTAACTCT ACTTTNATTT GTGATGGCTG TGTTTCACAC 300  
TACCTTGATT TATAAATGTA NGTAATGTNG TTAAATNGN 339

(2) INFORMATION FOR SEQ ID NO: 5789:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 343
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06872

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5789:

GATCCTNTGT ATAACATCGG GGCCTTGCTC AGGGGCTGTT GCGTGGTTGC CCTGCATTGC 60  
CTCCGNCGCA CCGCCTTCCG TATCAAAACC TAAATAGAAG TTGTTGTTAC CGTGTGCCAA 120  
TGTGTCCCAT GTGGGTTGTG CCAGGTAGAG AAACAGGAAG TCAATCATCT GTNACAGTCT 180  
CTATTCTGTC GTTTTGCTCC TTGGTATTN ATTTGCACTA TATTNAGGTG AAGCCTGTTC 240  
ACTGTTTAAA NCCGGAGTNT TCTTCAAANG GCATGGNGAC CTGGTTCCAG TAAATGTCCC 300  
ANCAGTGGGG GTTTTAGAAN GCATNNTTCA NTGACCNTNG NAN 343

## (2) INFORMATION FOR SEQ ID NO: 5790:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 330
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06873

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5790:

```
GATCATTATG TAGTTTCTGG ATTAAAAAAA TTTGTGTGTG AAGTTGCTTT GTAAAGTGCA 60
TGTGGAATTA ATGGGACAGT GTGCCCTTTG TGTTAGATGT TAGAGCAAAA GAAAGGGCTT 120
ATAGTGTTAG TATTGGAGCA CTTTGAAGAT AGATATTTNC AGAAAAGATG TAGGATTTAA 180
NAGTTAAATT TTAANTTTTA GAANANGATA TGATGGCAAT TGGNAATAGT CACAATGNNG 240
TTCTTCATCC AGTNGGTGTT TAACCAAGTGT TNATTTTGCC NCTGGTAATG TGGTNACCTG 300
TGNGTGNNTT CCANTAGATG NGTTATGGGN 330
```

## (2) INFORMATION FOR SEQ ID NO: 5791:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 265
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06874

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5791:

```
GATCACCACA AAGTCTGGCT CAGTGACTAT GGCTTTGCAA AACTAAACA TTCCTGTCTC 60
AAGTCCTGTA GATGGCTTGA AATAGTATAC ATAAGCATGC CTTATAAACA TCTTCAGTCT 120
TTATCAACTC TTTGGAGATT CAGCCATTCT TTTTGTACT TTAGGGAATT AAATCANNNN 180
ATAATGTATA AATCTGAGCA TGGCCGATGG CAGAAGANAT TTTGTCATAC GTTTTTAAAG 240
ANNTAAGANT GTATTATGTT TAAA 265
```

## (2) INFORMATION FOR SEQ ID NO: 5792:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 191
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06875

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5792:

```
GATCAGAAAC CCTCATTTAA TATAGATTAT TTTGGAAATN AAAAAATTTG TAACAAGGTG 60
GCTTCTTAC CCACCTAAA ATGTAAATAA AACATGCAAG CTTAGCTGC TCGAGTTCTA 120
TAGTGTACC TAAATCGTAT GTGTATGATA CATAAGGTTA TGTATGCCCT GTAGCCGTTN 180
NNNNNTNTNT N 191
```

## (2) INFORMATION FOR SEQ ID NO: 5793:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 204

(B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06876  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5793:  
 GATCTTGTCT TTATCTACTT TCTTCAGTAA ACTCTGGAAG AAAAAAACTT CCTGGAAGTT 60  
 TGGGCAATCA TTTGCCATTA TTTNCCTTTC CTTGAATTTC TTGATATCAT GAATACTGCT 120  
 GTAGTATGGG ACATTATGTA TTTNGGTAAG CAGACTTCTC TNCTGTATTT GTNTTTNGTT 180  
 AAACAGAATG ACAAGTTCCT TAAA 204

(2) INFORMATION FOR SEQ ID NO: 5794:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 237  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06878  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5794:  
 GATCCACCCC CAGGCCTTGC CCCTGCCCTC CCACGAATGG TTAATATATA TGTAGATATA 60  
 TATTTNAGCA GTGACATTCC CAGAGAGCCC CAGAGCTCTC AAGCTCCTTN NTGTCAGGNT 120  
 GGGGGGTTCA GCCTGTCTTG TCACTCTTNA GGTGCCTGCT GGCATNCTCT CCCNCATGCT 180  
 TACTAATACA TNCCCTTCCC CATAGCCATC AAAACTGGAC CAACTGGNCN NTTCCTN 237

(2) INFORMATION FOR SEQ ID NO: 5795:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 214  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06879  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5795:  
 GATCAAAAGC CAAGCTCTGT CCCCGTCAGC ACGTCACCCT CCCTCACTGT AATCCCTGAC 60  
 TGTTTTCTCT AAATGAAGAA TTATTTAGAG AATATAANTT AGAAGGGCCG CCACGTCAGA 120  
 TTTGCCTGAN TGGGAGCAGT CTTTCCAGCC TCGAAAAATG TTTAANCAAT ATGCAGATGA 180  
 CCTAGCACAA ATAANGANTG CTAGCAACCG CAAA 214

(2) INFORMATION FOR SEQ ID NO: 5796:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 187  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06880  
 (ix) FEATURE:



(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5796:

GATCAAGTGA TACTAGGAAT ATAGGTACAA GTAAGACTGT CATTTNCATT GTTTTCTCTT 60  
TGGACTGATT CTTTNCATTA TAACAGCGTT GTGAAGTAGA GGTGGGATTA GGAACCNCTCT 120  
GCTGTAATCA ACTCCCTNGC TGCCCAAACA CCAGCCTNAT ACACAACACC ANCAGGTCCN 180  
GCNTNGN 187

(2) INFORMATION FOR SEQ ID NO: 5797:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 247  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06882

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5797:

GATCTTTNAG TGCTTTGGGG ATGGGGTGGG CTGGGGTGGA TGGATGGGCA ACAGTGACTT 60  
TAATTACCTT TGCTGCTCTG CATTTNCCAG TTTATNCTTT TGTTTCTTTT ATCTGACTGA 120  
CTCTGTCAAA CAAGTGTCAA AGTTGTGTGT TAAAAAATGT TTAACAAAAA ANNTGTTGTA 180  
ATGACACAAA GCCTTATGAN ANTNTTTATG GAGTTCAATA AAAGANGTAA GAGGTCAANC 240  
CNNAGGN 247

(2) INFORMATION FOR SEQ ID NO: 5798:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 106  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06883

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5798:

GATCTTCCCA ATATGAACAA ATATACTATG TATATNGTGT GTATTTCTAG AAATCAATGG 60  
CAGCTGCTGA TGGNGTTGTA ATTAGAANTC TATATAGNNT ATAGAN 106

(2) INFORMATION FOR SEQ ID NO: 5799:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 214  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06884

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5799:

GATCAGGACC TACGTTAAGG TGGATTTTNA ATTATTTAAA ATTCTGATTT TGTTTTATTT 60  
TTAATTAATC TTTGGGGGAA GGATGGGAGG GGGGTGAGGG TTGAAGAAGT AAACATTGTA 120  
CCTATTGGAT ACAATGTTTA ATATTTGTGT GATGGGCACA CTGGAAGCCC AAACCTCACT 180  
ATTACACAGT ACATTCATGT AACAAGCCTG CAAA 214

## (2) INFORMATION FOR SEQ ID NO: 5800:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 119
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06885

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5800:

GATCCTTAAT GGTGGCCAGA GCTACCATGC AGTGCAAAAA TAAATTAAGT GAAAATGTAT 60  
TATTGAGATT AACAGTGCAA GGCCAATACA TTTTATAAAT CTGTCAGTAT CTTTTTAAA 119

## (2) INFORMATION FOR SEQ ID NO: 5801:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 339
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06886

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5801:

GATCCTCAGT GAAGTGCATT CGGAATGAGG ATGGAACCTTG GTTAACACCA AATGAATTTG 60  
AAGTCGAAGG AAAAGGAAGG AACGCAAAGA ACTGGAAACG GAATATACGT TGTGAAGGAA 120  
CGACCCTAGG AGAGCTGCTN AAGAGTGGAC TTTTGCTCTG TCCTCCAAGA NTAANTCTCA 180  
AGAGAGAGTT AAATAGCAAG TGAATTTCTA CTACCCTCTC AGTCACCATG TTGCAGACTT 240  
TCCCTGTCTG GAGGCTCACC TTAGAGCTTC TGAAGTTTCC AAGCTCTGAG GTCAACCTNC 300  
ACATTTTGGG CAATGGCATC TTCAAAAACA ATTAATTTN 339

## (2) INFORMATION FOR SEQ ID NO: 5802:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 381
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06888

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5802:

GATCTCCAAG CGAACTCAGC CTCCTCCCAA GCTCCCTGTG GGTCTTAGCC ACAAGCTCTC 60  
CAACAATTAC TATTGCACTC GCGATGGCCG NCGGGAATCT GTGCCCCCTT GCATCATCAT 120  
GTCGTGCGAG AAGGCGCTGG TGTCAGGCAA GCCAGCAGAG AGCTCTGCTG TAGCTGCCAC 180  
TGAGAAGAAG GCGGTGACTC CAGCTCCTNC CATAAAGAGG TGGGAGCTGT CCTCGGACCA 240  
GCCTTACCTG TGACATTNCA CCNTNACGNC CACCCGNTA CTTTTGCCTN CTTTGGATTT 300  
NCTTCAGGN GAATNTTGAC CTAATTGTAT GACAATTTAC GTAGGGGCTC AGGTATTCAC 360  
TTCTGAGGTN TTAATTTTTG N 381

## (2) INFORMATION FOR SEQ ID NO: 5803:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 150

(B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06889  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5803:  
 GATCTACACA TGTTGCCTTG CATTTGTGGT AATCTACACC AATGGAAACA TGTACTACAG 60  
 CTATATTTGA TTATGTATGG ATATATTTGA AATAGTATAC ATTGTCTTGA TGTTTTTCCT 120  
 GTAATGTAAA TAAACTATTT ATATCACAAA 150

(2) INFORMATION FOR SEQ ID NO: 5804:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 276  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06890  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5804:  
 GATCCTAAGC AAAATCGGAG ACTTGAACAA AGTTTGTTC TGGCTGTNTG CCCTTCCATT 60  
 TTCTGTTC TCCTTTCTCC CTGGAGATGA NAGAACACAG AATCANATTN CCAACCTCTC 120  
 TCTCCNATGN ACTCTCTCAT CCCCCAGCCC AGCCACATTT ACACATAGGG CAGACACATC 180  
 TCACACAAAG GAAGTACCCC TAAAGACCTC ACATAAATAA ACACTAGCAA ANTTCAAGTT 240  
 GNNCTCTGGC AAANGTAGTN NTGGGTATGT NAGTCN 276

(2) INFORMATION FOR SEQ ID NO: 5805:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 219  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06891  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5805:  
 GATCANGTTC NGGGCTCTNT CAGCCGCCAC CTCTGGGAAA GAGAAAAGNT TTGGGTCCAC 60  
 TGAACATCAT GTTGTAGAC GCTGACAGGT GGGGTCCTAA TNAGAGCCAA CACATGCTCA 120  
 CTGCCAGCNC CTGCCCTGAG TACTGGGAAG TTTCTCCTGG AAGCCCTTGT GAGATGGCTC 180  
 NGNNGGCTGG TATCCCGACT TGGAAGATGA GGAACTNN 219

(2) INFORMATION FOR SEQ ID NO: 5806:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 191  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06893  
 (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5806:

```
GATCAGTTTT NTGCTGAAGG CACCTACTCA GTATCTTTTC CTCTTTATCA CTCTGCATTG 60
GTGAATTTAN TCCTCTCCTT TGTGTTCAAC TTTTGTNTGC TTTTAAAATC AGCTTTATTC 120
TAAGCAAATC TGTGTCTACT TTAAAAAATC GGAAATGGAA AAAAAATTAA ATCTNNGCCA 180
GGTCCTTCAA A 191
```

(2) INFORMATION FOR SEQ ID NO: 5807:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 206  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06894

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5807:

```
GATCTGCAGC TTCGCGGGGA CAGAGATGTA ACCCAACTCG TTCACGGATG TNCCGCGCGC 60
CGTGTCACCG GCTGCGGGCC AGGGGTACTC GGAAGGCGCG GGCAGGAGCC TNGCGAGGAT 120
GCACCTTCCC CTGCNTTGA AAGGTAGAAC TGGGGAGTGC GGGAGGNTGA AGGTGGCCCC 180
GAAAAGAACA CCTNTTCGCA ACCAAA 206
```

(2) INFORMATION FOR SEQ ID NO: 5808:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 55  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06895

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5808:

```
GATCTAAATA TGTATTTTCAT AATNTTCCCA TAATAAATTA TATAAGGTGG CTAAA 55
```

(2) INFORMATION FOR SEQ ID NO: 5809:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 197  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06896

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5809:

```
GATCTGGTTT NATTCCTGTA ATTCAGCCAC CTGATTTGCT TGAGGGGGNG GNATANTATG 60
TGGGTTTTTG TACAAACATG TTTCTCAGTG TGTTGTTATT TTGGAAAAAA TGAGGGGAGG 120
GAGTTTTGCA AGAATGNGAG AAAATGANTG AAGAAGGCCT AATCNTCTCT CTTTTTCCAG 180
TGGATTNAAT GGGNCCN 197
```

(2) INFORMATION FOR SEQ ID NO: 5810:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 344  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06897  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5810:  
 GATCCAATGA TTTAATTTTT GGGAAGAAAA ATCCAGTGAT TAAAGTCATG CAAGGAGATG 60  
 GCCTGGGGCT TGCTAAAAGT CAGGTTGCAG TTTCCATTGC ATTCAAGAAA ATCAGAAAAA 120  
 TAAATACAAC TTTTAGAAGA AACTGAGTTT TCTCCATTC ATGTTTAGCT ATTGGGGGGT 180  
 CTCATACTTC TGGACTTGCT TAGACCTATG CTATCTAATA TGGTNGCCTC TGCCCATCCA 240  
 TATGTGGCCA CTTGGGAACT TGGAAATGTN ACTAGTTTTG AATTAAGGTG TGCTNGTAAC 300  
 TAAATNCAC CCTGNGGTNT CAAAGGCTNN AATAANGNA NGGN 344

(2) INFORMATION FOR SEQ ID NO: 5811:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 111  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06898  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5811:  
 GATCTATCTC CCTGTTAGGT GTNCTTTTTC TCCTCTTTAG AAAGNAGCCA AGGNAACCAG 60  
 GGTCTCTCA AAGTGGAAAA TACTGGAAC NATGTACTGN TATCATAATG N 111

(2) INFORMATION FOR SEQ ID NO: 5812:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 169  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06899  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5812:  
 GATCCATTGC TTTTAGACAG GACTGGGTTT TGCTGTCCAA TGATATACAN TAATAGTNCT 60  
 TCTTACAGCT AAGCTGGCCC CAGCCTTGTC TTGATATTAA TACATGAANT NTTTATAATT 120  
 GTCTCATTGT CTCATTTAGA AACATCCANA TTTNCTGCT GTGNCTATN 169

(2) INFORMATION FOR SEQ ID NO: 5813:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 112  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06900  
 (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5813:

GATCAGTAAC TTTATCTCTA TCCTTAATGA ACATTTGTTT TATTGGTGGC TGGAAATATT 60  
TCTATTGTAT TTCTGTGTAT ATNNTNAATA AAATAATTTT TGGCCTCTNA AA 112

(2) INFORMATION FOR SEQ ID NO: 5814:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 271  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06901

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5814:

GATCAGCAGC TCGGAAGACT CAGATGCCGA AAACCTCGTCC TCCCGAGAGC TGGATGACAG 60  
CAGCAGTGAG TCCAGTGACC TCCANCTGGA AGGCCCCANC ACCCTCAGGG TCCTTTGACG 120  
AGAACCTTGC TGACCCCCAA GCAGNAGACA GACCTCTGGT TTNNTTTGAC CTCAAGATNG 180  
ACAATGAAAG TGGGTTCTCC TGGGGCTACC NNNACCCNTT TCTAATTTAG TCTCTNGAGT 240  
CCCAAAAAGA AGTNCAGGCA GAGCCATCTN N 271

(2) INFORMATION FOR SEQ ID NO: 5815:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 317  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06902

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5815:

GATCATGAAA AGAAAAATNA ATGGCAGGAA AAAAGTTTGG TCCTTAATAT ACTTTGGCCT 60  
AGTNAAAATA TGTGCCTTTT TGGTGTGTTT TGTTTCATCAC TACAAGATAA AAAGGAAACA 120  
TTACANCTCA AGGCTTTAAA AAGTTCATTT ATTGAAATC ATATGTATAG CCTAGCATAC 180  
GAATGTGCAG TTTTAAACAC ATAGCTTCAA GCCATTTCTG NAAGCATNCA CCGGGNGCTC 240  
TGCTCAGNTA GAGTCAGNCT CCNNGCTCCA GNCCGACTGC GTGCGGGGGA CCAGCGGCCG 300  
CGTTNNATGG NGGGNCN 317

(2) INFORMATION FOR SEQ ID NO: 5816:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 294  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06903

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5816:

GATCTAGGAG AGGCGGCTCT GAACGAGTAC CTGCGGGTCA AGACAGTGAC CTTGATTAC 60  
TGAAGAAAGG TCTTTNTGAG AAGAAAGTCC CTGCCCTCC CTCGTGGCTG GGGTCCCCCTC 120  
CCTCTTGAGC CTNGGTGCAC AGCANCTCCC ACCTGGGGGG CTAGTGGAAG CCCTCCTGCC 180

TGCACACCAT GTCTGCATCT TGGACGNCCT CTGTCCAGTC AGAAGCAGCC CTTGGNTNNG 240  
GGTGAGNTGT GNCCCTTCCA GGGGGAATAA AGCTTCTGAA GAGAGACCGT CAAA 294

(2) INFORMATION FOR SEQ ID NO: 5817:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 263
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06904

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5817:

GATCAAAATC AATGGGAAGG TGCTGCCAAG GTGTCCTAAG CTTCTAGGAT AATATTNATN 60  
CTCTCAGGGT TTTGGAAGT CTGCCCCAAG TCATAGTTCT CAGTCCTGGG TGTGAGTCAG 120  
ANTCACCTGT GGAGCCTGGC AAACCTTACA GACACCCTGG CTCCAGCCCT GGAGATTTTN 180  
ATTTANTGGA AATATCACTT AGAATTCTAT TGTAAGCAAT AAAAGTNTAT TCTCACTAAA 240  
CTTTCAAAAA NTNGNGNTGN NNN 263

(2) INFORMATION FOR SEQ ID NO: 5818:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 199
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06906

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5818:

GATCTTTCCC NTTTGGATGT GCGTGTGTGT CTGCNTGTGC CATGTGCGTG GCACGCATAT 60  
GAAGTGTGTG TGCCTGTGAA CGGCTTTGGG TCCTGCTGGT TTTNCTGTGA GCTNCAGTGT 120  
TCTGTGGGTC TGTGGTATCT NACACTGTGG NCATTAATGT ACTTCTTGA CATTTTAATA 180  
AATTTTTNAA CAGTTCAAA 199

(2) INFORMATION FOR SEQ ID NO: 5819:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 104
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06909

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5819:

GATCANAAAA CCTAAANTCC ATAGGNACCC NAAATCCTCA CAGTTACAGA GACACCAAGA 60  
AGANTCTGGA CAAATAGGAC TTGCTAAGGC CTCCACAGTT TATN 104

(2) INFORMATION FOR SEQ ID NO: 5820:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 343
- (B) TYPE: nucleic acid

- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS06910
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5820:

```
GATCGAACGG ACTNTAAATC CGCTCTTTAT CGAAAGCTAA GCAAGCTGTG GCTTTTTTCC 60
AACTCCGTGT AACGATTCTA AGTGTAGTGT NGTAGGACCC CGACGGGTNT GGCAGCAACT 120
GCCCTGGAGC CCCAGCCCCT GCTTCCATCT NTNCTGTGCG CCCCACAGTA GACGTGCAGA 180
CGTCCCTAAG AAGGTTCTTN AAGATGTTTA TTTTATATAG TCCTNTTTTA CTGGAAGACG 240
TACGNATACT CCATCGATGT TGTATTTGGN GGGGGGTGNG GAATTCTTGT ACGCAGTTTT 300
CNTTNGCTT TACGAAGCCG GTNAANNGAC CGTTTTGAAN TAN 343
```

(2) INFORMATION FOR SEQ ID NO: 5821:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 106
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS06911
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5821:

```
GATCACTTGA GCCCAGGAGT TCAAGACCAG CCTGGGCAAC ATGGCTAATN AACACTAAGC 60
ATAGTTTAA TGTCTTTNAT ATTAAAGACT TTCTCAAATT CTAAA 106
```

(2) INFORMATION FOR SEQ ID NO: 5822:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 350
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS06912
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5822:

```
GATCCATTCC AGCCACTCGG GGCTGACAGC GGCGACCCGT TCCAAAGTAA AAAGGGGTTT 60
GGGGACCCGT TTAGTGGAAA AGACCCATTT GTCCCTCCT CTGCAGCTAA ACCTTCTAAG 120
GCCTCTGCCT CGGGCTTTC AGACTTCACC TCTGTAAGTT GAGTCCTCCG NCTCCGGGCC 180
ACCCCACTCC CTTCCGCTTG CAGCTTCCCT GGGATTTTNG TNTCCTTTTA AAGGCAAACC 240
TCCAGCTTC TTTAGCCTCT TGGTACCTNA CACTCTCTGT CCNTCGCGTT ATTNATTCTA 300
CACTGCCACT TCTGTAAGAA AAACAGTTTN TCAATAAAAA AAANAGNTGN 350
```

(2) INFORMATION FOR SEQ ID NO: 5823:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 163
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS06913



## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5823:

GATCTCGTCT CTAAATAAAA TATACAAAAG AGTATTGGGA GGGGGTATGA AGAATGTATA 60  
 GGGCAATAAT TGAAATCTGT TGAAGCTGGG TACACAAAAG TNCATTATGT TGTTTCTCTA 120  
 CATTTATATC TATTNTNAGT NNTTTNATAT CTATTTTNAN TTN 163

## (2) INFORMATION FOR SEQ ID NO: 5824:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 180  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06915

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5824:

GATCAGTGGT TTCCATTGTC AGGACTGGGC ATGGGGAAGT NTGGCTGTAC AAGAGGAGCC 60  
 CAAGGGAACCT CCTGGTGGT GATGGAACCTG CTCTGTATCT CAAATGTCTG TATCTTTAGA 120  
 AAGAANTCTA CATATGTNAT AACACTGCAT AGAAATATAT ACATGTACAC ACAAGTGAAG 180

## (2) INFORMATION FOR SEQ ID NO: 5825:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 247  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06916

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5825:

GATCAGTGAA ATCCTAGGGT GCTCTATGAG ATTGTACTAG GCCTATNAAG AGTGGTAAGC 60  
 CAAATAGGTC TCCATGGGAG ATACATTATG TAAATAAATA AACAATGGTT TGCTGGTTCC 120  
 TGTTGGTGTC TCCACAAGTA GGTAANCATG TTTAAAGGAA CCCGGGTTCT TAGATTTTNT 180  
 NAGACTTTTT AANCTCAAGG CTGNGCATAA GTNCTTGAAN ATAAANTGCT AATNCTTAAG 240  
 TGTCAAA 247

## (2) INFORMATION FOR SEQ ID NO: 5826:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 169  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06917

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5826:

GATCAAGAAT TGCAAAAATG GAAAAAATTA ATGAAAAGGC ATCTGATAAA TGTGGACGGC 60  
 TCCAAATCAT GTCCTTAGAA AATCTTTCTA TTGAAAAGGA GACTAAATTG TAATGTGATT 120  
 CACAATGTAA CAATATAANN CTNNGTTTTT NTATAATTNT NTAANAGTN 169

## (2) INFORMATION FOR SEQ ID NO: 5827:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 268
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06919

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5827:

```
GATCACCTCC GGGCACAGGA TGCGAGGAAC TGTGTGACATT CAGGGATGTG ACCATAGAAT 60
TCTNTCTGGA GGAGTGGGAG TTTCTNAACC CTGCTCAGCA GAGTTTGTAT AGGAAAGTNA 120
TGCTAGAGAA CTACAGAAAC CTGGTCTCTN TGGGTCTTAC TGTTTCTAAG CCAGAACTGA 180
TTAGCCGTCT GGAGCAAAGA CAGGAGCCCT GGAATGTGAA GAGACATGAG ACCATAGCCT 240
GGGCGACAGA GCGAGACTCC GTNTCAAA 268
```

## (2) INFORMATION FOR SEQ ID NO: 5828:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 219
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06920

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5828:

```
GATCTGTGCC CAGAGACGGG ACTGGGAGGG CCCACTTCAG GGTTCTCCTC TCCCCTCTAA 60
GGCCGAAGAA GGGTCCTTCC CTCTCCCCAA GACTTNGTGT CCTTTCCTC CACTCCTTCC 120
TGCCACCTGC TGCTGCTGCT GCTGCTAATC TTCANGGCA CTNCTTGCTG NCTTTAAGTC 180
GCTGAGGGAA AAATAAATGA CAAATTGCTT GNGNCCAAA 219
```

## (2) INFORMATION FOR SEQ ID NO: 5829:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 153
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06922

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5829:

```
GATCATAAGT NCTTCTATCT GCTGAGCTTT ATTTATTNAT TTTGGACAGA AAGTTTGGTG 60
GGAAGGTTGC AATAAAATCA GAATCTCTCT TGTNTGAATT ATGCAGTTTA ACCCTGTCCA 120
TGGNNNGGCT GTACTCTATT CTNACTGTAT TTN 153
```

## (2) INFORMATION FOR SEQ ID NO: 5830:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 172
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06923

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5830:

GATCTTGTTT TNATTAAATA TGCCAGTTTG TATTTCCTG CCTTGGGATT TTTTGTGTC 60  
 CGCTGTACAG TATTCTAAGG GAAAAAGAAA AAGAAAGATG TGTAAGTAA CAGAGAGAGG 120  
 TGGCTATGGT GTAGAGACCT CTTTCTAATA AAGAAATGAA AATATGTCTA AA 172

## (2) INFORMATION FOR SEQ ID NO: 5831:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 96  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06927

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5831:

GATCCCAGGG AAGACGTCTC TCTCNGCATC CCAAGCCATN CAGCCCTTAT CGCTGTACCC 60  
 AGTAAACCCT CAATAAATAT CTTTNTCAGC CAGAAA 96

## (2) INFORMATION FOR SEQ ID NO: 5832:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 228  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06928

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5832:

GATCACTGTA TTAATTTTGG TTTATCTTGG CATATATNGT TCAGTTTGTN TTTATTTTTA 60  
 ATTTTNCCTT TTTTCCGAT TAGGCTTTGG TCAGCATTTT NCATTTAAAG AAAAGTAACA 120  
 CTCCCATCCA CTCATAAGCT TGGTACAAAA ACTTCTCTGG CAGTTACTTT TGAAGCTTCA 180  
 CTCTGCTTTC TGTATAAAGG GCAGTCTGTG GTCACGCAAG ACTTTAAA 228

## (2) INFORMATION FOR SEQ ID NO: 5833:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 109  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06929

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5833:

GATCTTTCTG CTTTCGAAGG TATANTGTAT CTATTTCTGT CAGGAATNAT ATTTCCAAAT 60  
 GAAAATGTAA AGAACATTGG GAAATAATAA ACTTTCCTTT CAAAGTAAA 109

## (2) INFORMATION FOR SEQ ID NO: 5834:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 160  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06930  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5834:  
 GATCTGTGTT TGGAAAGAAA AGAAGGAAAC TAAGACGTGC GAGGGNAAGA AAAAGGAAAA 60  
 CCTAATTAAA AAATATGTAT CCTCTATAAT NAGTTATNAC AGCCATTGTG AATGAATTG 120  
 TCGCAAAGAC GTAATAAAAT TAACTGGTAG CACGGNCAAA 160

(2) INFORMATION FOR SEQ ID NO: 5835:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 77  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06931  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5835:  
 GATCGACCGG CACCGCTGTT GCCTCGTAAG CCATAGCGCA TGCGCGCTCT CAGAATAAAC 60  
 AGGCCCTGCC TGGGAAA 77

(2) INFORMATION FOR SEQ ID NO: 5836:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 137  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06932  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5836:  
 GATCANATAA CAGAATGCAC CAGTCATCAG CTATTCAGTT GGTAAGCTTC CAGGAAAAAG 60  
 GACAGGCAGA AAGAGTTTNA NACCTGAATA GCTCCCANAT TTCAGTCTTT TCCTGTTTTT 120  
 GTTAACTTTG GGTAAA 137

(2) INFORMATION FOR SEQ ID NO: 5837:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 402  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06933  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5837:

```

GATCCAGCTT CATTCAACAT TACTACCACT TATTTGATAA TNATAGAACC CAACTAGGCG 60
CAATTTACAT TGACGCGTCA TGCCTTACGT GGGAAAGGACA ACAGTTCCAG GGGAAAGCTG 120
CCATTGTGGA GAAGTTGTCT AGCCTTCCGT TCCAGAAAAT TCAGCACAGC ATCACCGCGC 180
AGGACCATCA GCCCACTCCA GATAGCTGCA TCATCAGCAT GGTTGTGGGC CAGCTTANGG 240
CGGNTGAAGA CCCCATCATG GGNMNTNCGCC AGATGTTTCT ATTAAGAAGC ATCAACGATG 300
NTTGGGTTTG CACCAATGNC ATGGTTCAGG CTCGTCCTGC NCANNTTTGG CTGNCCTNCT 360
TTGCAGNTTG GGNACTNANG NTGTTTGCTT GCTGCCTTTT GN 402

```

## (2) INFORMATION FOR SEQ ID NO: 5838:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 261
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06934

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5838:

```

GATCTTCGTA ACGGCCTCGG CACGCTCCAC ACCCCTGGAG TCTCCCGAGG CCCCCATGTG 60
CTGCTGAGTG GCCAAGATGA TGCCAGGCTG CCCTATACAC TGGGGGATTC TGCCCTGGCC 120
CATGCACACC CGTCTTTCCA TGATGGCAGA GACATCCAGT NAGGACCTGA CCCGTCCTG 180
TCTGAGGCCG GCTCAGCAGT GCAGCCTGGT CCCTGGGGGC TGGACCCAGG CTCCTAAATA 240
AACCAGCAAC TNCCTCGNAA A 261

```

## (2) INFORMATION FOR SEQ ID NO: 5839:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 158
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06935

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5839:

```

GATCTCGGCT CACTGCAACC TCTGCCTCCC GAGTCTGGT TCAAATATT CTCCTGCCTC 60
ANTCTCCTGA GTAGCTGGGA CTACAGNNAC GAGCCACCAC ACCCTNCCCC CGNATCCCCT 120
GCCTCCATCC TAGTAAAGAC TCCTTGCTAT GCTGCAAA 158

```

## (2) INFORMATION FOR SEQ ID NO: 5840:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 127
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06936

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5840:

```

GATCAGTTTT GCCAAGGGGC CAGAATTATT CCTTGTTAGA ATTGCTCCAG TTCAAGTCTG 60
CTGCTTTCCT ACAGTTTTTC AAATTTTATA ATGTATTAAA TACAATAAAC TCTGTTTAAA 120
AAATAAA 127

```

## (2) INFORMATION FOR SEQ ID NO: 5841:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 232
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06937

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5841:

```
GATCAAAGAA AATTTATCTC TTTTATAAA CTTAAGGACA GTTGCAAAAG GCTTCAAGGA 60
ATTTATCTCA ACATTATTCT TTCTATGTCC TAACTAAATT CCTCAACTGT NATGANTTTT 120
CCANCTACTT CTTGAACAGT GGTCTATNCT GCTACATGAN GATGAATACA AACAANNTTN 180
TTGTATAACC TACTATNCCA GTNCTCCTGT GTCAGTCTTG CCTATGGATN TN 232
```

## (2) INFORMATION FOR SEQ ID NO: 5842:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 290
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06938

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5842:

```
GATCTCCAGN GCGCAGTGGG TTGGAGGAAG TACTACGTGA CAGCTGGGGG AGCCTAGCCC 60
TTGTNTGGGN ACTCACACAT CCACTCTAAC CCTTCTNACC ACAGGTCCGG CCGCCCCATT 120
AGCTTCATNG TGGTTTTTCAT CACCCCCAAC CCCCTGAGCA AGATTTCTTG GGTCAACAGG 180
TTACATTTGG CCANAATCGG ACTCCGTGAG TATAGCCCCA GGGAGAGTGC CTNAGGGGGC 240
AGNGGTGTGG AACGNGNAGG TTTNGGGTGA GTNNGGGTAC AGAATGTNGN 290
```

## (2) INFORMATION FOR SEQ ID NO: 5843:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 198
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06939

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5843:

```
GATCTTGTGA CATTCCTTCT CTGGACAAT NAGTCTCAGG AGCTCCTCAC CAAGCACCTT 60
GTTACCCCCA CCCCTGCCCA CAAGAGAAAA CGCACGTTAA CTGTAATTTN TCCACTACCT 120
ACCCAAATCC TATAAACTG CCCACCCCA TCTCCTTTTG CTGACTCCAG GTGATTAAAN 180
AACTATTGCT CAGGGAAA 198
```

## (2) INFORMATION FOR SEQ ID NO: 5844:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 255
- (B) TYPE: nucleic acid

(C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06941  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5844:  
 GATCTTTTTT CTAACACATA TTTGAACTGA ATAACAGACT TAAAGAAAGC CTTTGTTTAC 60  
 ATTGCTATTT ACTNTTGTGT TTGGGGGAAA ATACGAGGGA TTGATTTTAA ATAAAAAACA 120  
 TTCCNTCTTT CATTNAATAT CAGTATCAAA AGAGGNNGAC AAACATCTAT CTTTCTCATC 180  
 TNTATTNAAG TNCCTTTTTG TANTGTAGTA TCAANGTTT TTAGGTGNTG CAAGGTTTTA 240  
 CAANTCATTT GTGGN 255

(2) INFORMATION FOR SEQ ID NO: 5845:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 318  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06942  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5845:  
 GATCCCTCAG AAGACTTAAC TTGGCTGGAG TGGGAGGAAC TGAAAATACC ACTCCATGGT 60  
 ATACCCATAT ATCCAAATCG TAGAGAACGA GAAGCTATGA TTTATCATC TTATGCTGGA 120  
 ATCTTAATGA ACAGTATCCC GATTGAGGAA GTCTTTAAAA TTTATGGGGC TGATTCTNCT 180  
 GNCGATTCTG GTACCATCAA GTTTCCCCGA GTTTCATCTN TCCGNCTCTC CTTNCACCNC 240  
 TTTTGCCATG TTAGCAGNAN CNANAGCAGC AGCATACGGC CGCAAACNGG GTGTCNAGTC 300  
 AAGNANGGTT GCAGCAGN 318

(2) INFORMATION FOR SEQ ID NO: 5846:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 54  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06943  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5846:  
 GATCGGAGGT TGGGTTCTTG ATTAACTTC ACTGTGTGTT TTCTATNTCG GAAA 54

(2) INFORMATION FOR SEQ ID NO: 5847:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 127  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06945  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5847:  
 GATCAGAGAN TTACCACCCC TGCTTNGAAG CAGTGTGGT GTATTCCCAC TAAATAAAC 60  
 CAACTGGTAT AACATTCCCT GGAGCTTAAT AAGCACTCAA TAAATATTTG TNGANTAAAN 120  
 ANAGAAN 127

(2) INFORMATION FOR SEQ ID NO: 5848:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 212  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06946

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5848:  
 GATCTGCAGA TTCCAAATGG GAATAAGCTC TATCATATTC TGAAACAAGA ATTAGAATGN 60  
 CTTGAGAACG GGCAAATAAC AAAGCAAACC AATATAATTA TATGGTCATT CTGACCCAG 120  
 CTCTTATACA NNTTATACAT GTATTTTGT GTATGTTGT GAGAGTTGTA TGTATGTGAA 180  
 TGNGTGTGAG TGTGTATTCA CATAACATA TN 212

(2) INFORMATION FOR SEQ ID NO: 5849:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 213  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06947

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5849:  
 GATCATAAGG TGAAGTCCCA CAATAGGCCG TCTGCAAGCT GAGAAGCAGN GNAAGCCAGT 60  
 CTGAGTCCCA AAACCCTAAC AGTAATCCTT TNCTAACGTC AGGNTGCGTA TCGACCTGTG 120  
 TGTGCACATT TGCTGTGCAG AGTGTGCACT GCTGAGGAGA ATGGTGCCCA AGAAGGGCAC 180  
 TGTTTGNCCC AAANTNTTNC AANTAANCAT TGN 213

(2) INFORMATION FOR SEQ ID NO: 5850:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 65  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06948

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5850:  
 GATCATCTTG AATTACTGTG GGATGTANGT TTCAAATTT TCAAATAAAG CCTTTGCAAG 60  
 ATAAA 65

(2) INFORMATION FOR SEQ ID NO: 5851:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 55



(B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06949  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5851:  
 GATCACATAC TGCAGTCCAG CCTAGGCAAC GNGCAAGAC GTCATCTCAA GGAAA 55

(2) INFORMATION FOR SEQ ID NO: 5852:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 186  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06951  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5852:  
 GATCTCCCCA AATCCATTGN TNTCACCAGG CCCTCCCAGA ACCTCCTCAG TTCCTTCACA 60  
 GTGCAACCCT NTGTACTTGG CCCGCAACCC ANTAGTATTG TGCCTCACTT CACCTTCCAT 120  
 GGGCAACTGC CCTCCCTTCT GGACATAAAA CCTNATATNT TAAATAAAGT TGAANTATGN 180  
 NAAGAN 186

(2) INFORMATION FOR SEQ ID NO: 5853:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 102  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06952  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5853:  
 GATCAACTGA AAAAAGCATG ACTTTTGAAA TCTCTGAATG CCTTGGTTCT NAGTATTATC 60  
 ATNCTTNATT GAATTTATTT CTNATTAAAN TATGTAGTTT TN 102

(2) INFORMATION FOR SEQ ID NO: 5854:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 97  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06953  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5854:  
 GATCATGTGG AGTGAAAGGC AAATCTTACT GCTTAATGTA TAACTCTCA CCACAGGAAG 60  
 CATCGCTGTT TCCAATAAAT ATTGCTGAAG ACAGAAA 97

## (2) INFORMATION FOR SEQ ID NO: 5855:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 308
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06954

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5855:

```
GATCTGTCCA GTTTGTGTAT GAAATGGATT TGATAAAGTT TTTGCTAGTT ATTTACTACA 60
TTTTGGGATT AATAAGTGAT TTANATGCAT ATNTTCCTGT AAATCTACAG TTTTTGTAC 120
AAGATATTCT ACAAGTNATG ANGCTAAGGG AAGAAAATGC CAAAGATACC TCTAGTTATG 180
TTGANACAG CCAGCACAGT TTCGACAGGT CAAGGAAGAG CTGTTTCAGT AAAGANTGAN 240
GTGAAAACNC TTATTNNGGA AANTGTTTCT CANTANTAAN CTGTATAGTT GTTCTCTNA 300
NACCCCN 308
```

## (2) INFORMATION FOR SEQ ID NO: 5856:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 128
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06955

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5856:

```
GATCCCAAGT GTTTAGAAAA CTAAGTAAAC TTTGTTGTCA AGCAATTTGT CCATGTGGAA 60
AGAATTTAAA GAGAAGCTGA ACAATGGAAT AAACAAATAA AGCATGTTTT TNNATCTTTC 120
CCATTAAA 128
```

## (2) INFORMATION FOR SEQ ID NO: 5857:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 143
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06956

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5857:

```
GATCTTAAAA ACTGCAGTAT TCCCCCATT TTAATGAGA GTGTGGGGCT GGCAGGGNTT 60
GGTTGGAGGG AGGAGAGAAG ACAGAGGAGC ACTTAAGGTG CAAAGCAGCC TATTTTCCT 120
TCAATAAAAA TTGTTAAGGG AAA 143
```

## (2) INFORMATION FOR SEQ ID NO: 5858:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 235
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06957  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5858:  
 GATCCGTGGA AATAGCCTGG CTCCCTCTTA CCCAGTAATG AGGGGCAGGG AAGGGAAC TG 60  
 GGAGGCAGCC GTT TAGTCCT CCCTGCCCTG CCCACTGCCT GGATGGGGCG ATGCCACNNN 120  
 GTCATCCTTC ACCCAGCTCT GGCCTCTGGG TCCCACCACC NAGCCCCCGG TGTNAGAACA 180  
 ATCTTTGCTC TGTACAATCG GGCTCTTTAC AATAAACCT TCCTGCTTNC ACAA 235

(2) INFORMATION FOR SEQ ID NO: 5859:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 258  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06959  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5859:  
 GATCCAGTAC TATCAGAATG ACATCCCCTA CTGAGGAGGG GACCTTCGAG GGCCTCTGCC 60  
 CCATGTGCCC TCAAAGCTGT CCCACAATCA TGGAGCCCTG CNACCTNCCT GCCCTGNCGN 120  
 CACATGCAGT NGAGGAGAGG CCTGTGGCCA AAGAACCCTGG TAGCGGCTCC TNGGGCAGCA 180  
 CGTGGNTGGC GCACTTTGGT AACGCCATGG GANTGCAGCG NCCANTCGAA TGGGATNGGT 240  
 GCTGTTNTAT GCACAGGN 258

(2) INFORMATION FOR SEQ ID NO: 5860:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 309  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06960  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5860:  
 GATCAGATTA CCAGGAACAT AGGAGTGGAT TCCTGCCCCA ACCAAACCGC ATTCGTGTGG 60  
 ATTTTTTTTAT TCAACTTAAT TGGCTATTCC AAAGATTTTT TTTTCCCTAT TTTTAACGAT 120  
 TGGAGCCCTT AAGATGCACG ATGGAATTGT GTTTTGC GTT TTTNGGNAAA NGGGAGCAAA 180  
 GCGGGGNCCT GNGATAAAC GNTTGGAGCA ATCTCCTTNG GNAGGGATTT CAGCANGGGG 240  
 TTAGNTNGGT GAAACATTTT AAAGGGGGGA AAGGGGGGGG GTTTTTTTTT NAAANTGGGN 300  
 TAAATNCGN 309

(2) INFORMATION FOR SEQ ID NO: 5861:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 179  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06961  
 (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5861:

GATCATGTGG ACCAGAGCAA ANNAAAGTTC AGTTTGTGTC ACAATTCATT GCCAGACTTC 60  
ATTGGAATGC TTTGTTTGAT GATGTATGTN CATTCTCAGC TTTATTTTCA GATGCTTAAC 120  
TGGGCAATGA AGTCTAACTT CAGGTTGAAC TNTCTCCNGN NTAANCTCAG GCTAAATGN 179

(2) INFORMATION FOR SEQ ID NO: 5862:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 341  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06963

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5862:

GATCGTGGTG GTGGGGACTG GAGACCGGAC CGAGAGGCTG CAGTCCCAGG TGCTTCAAGC 60  
CATGAGGCAG CGGGGCATTG CTGTGGAAGT GCAGGACACG CCCAATGCCT GTGCCACCTT 120  
CAACTTCCTG TGTCAATGAAG GCCGAGTAAC TGGAGCTGCT CTCATCCCTC CACCAGGAGG 180  
GACTTCACTT ACATCTTTGG GCCAAGCTGC TCAATGAACC GNCAGGAACT GACCTGCTGA 240  
CTGCACTCTG CCAGGCTTCC NAATTGCTTT CANTCTTATC TACCCTTTTG GGACTTATNT 300  
NGGCTTATCA ACATAATAAT TTGATACAAC TNNTTCCCAA A 341

(2) INFORMATION FOR SEQ ID NO: 5863:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 60  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06964

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5863:

GATCTGGTGA AAATAGGATT ACATTGGAGC CAATTGAATA AATTTATTCT TTCAATCAAA 60

(2) INFORMATION FOR SEQ ID NO: 5864:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 359  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06965

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5864:

GATCTGGGAG GTGGAAGCCA GGCCAGAGGA CTTGGGGAAA ATAAGATGGA GGAAGGAAAA 60  
AGGGAGAAGC TGAGCCACAG CTTAAGTCTT ACAGAGTGAA ATNAAAACGG GCTGAAAATA 120  
CCACCCCAGG AGAGGACCTC GCCCAAGCA AGCCAGTGAG CAGCCCTGCC AGACTACTGC 180  
CAGACTGAGA AACCAGAAG CTGGTAGTCA TGTGGGCTTG CNTTCTNTGC CAAACGACTG 240  
GGAAACCAAA ATNAGCCAC CTTGTGTTCT TCCTAGCTCC ACCCTCCCCG TGCTGCTGTG 300  
TTCTGCTCCT TCCNCACGGT TTCCCTGCTA TAGTTCCCAG CTGCTTGTA A CGGGGCCNN 359

## (2) INFORMATION FOR SEQ ID NO: 5865:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 170
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06966

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5865:

GATCATGGCT AACGGGCACA GGCTTTCTTT TTTGGGTGAT GAAAATATTC TAAAATAACT 60  
 GTAAAAATAT TGCACAACCTC TGTNAACATG TGAAACCCA CTGAACTGTA TGCTCTAACT 120  
 GTATGAATTG TATGGTATTT AAATTTNACC TCAATAAAGC TGTTATCAAA 170

## (2) INFORMATION FOR SEQ ID NO: 5866:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 187
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06967

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5866:

GATCAGAGCA AGAGAACTTC CAGAGATAAT GGATAGAATG AAAGAATATA TATCTATATA 60  
 TATTTAACAT GTTGTTTAGT AATCCCTATT TTAATTCAAT TCTCCATCTG TAAAATATTA 120  
 GCTAACTGAA TTATTTCTGT GTTCTACTCT GGGCTCTCAC ATTAAAACTC TGTTCAAAAA 180  
 GTTTAAA 187

## (2) INFORMATION FOR SEQ ID NO: 5867:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 57
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06969

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5867:

GATCTTGGAC TTCCAGCCT CCAAACTGT GAGAAATAAA CTCCTGTTGT TTGTAAA 57

## (2) INFORMATION FOR SEQ ID NO: 5868:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 289
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06971

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5868:

```
GATCATGGTC AGCTCACACC CTAATAAGTC CACATCTTCT CAGTGTTTTTA GCTGTTTTTTT 60
TCATTAGGNT TCCTTNTATT CTGTACCTTG CAGCCATGAC CAGTTCTGGC CAGGAGCTGG 120
AGGAGCAGGC AGTGNGTGGG AGCTCCTNTT AGGTAGANTT TAACATGACT TCTGCCCCAG 180
CTTATCTGT CACACANGTN TGTGGCACCN CTAGTGCTAC TGCTAGGATA TCACCTACTC 240
AGTTAGATTT TTCCNAAAAA NTAAGCTTTT AATTNATTTT TTTGGTGTN 289
```

(2) INFORMATION FOR SEQ ID NO: 5869:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 346  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06972

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5869:

```
GATCTCCTCT TCCACCTCTT CCTGGTTCCT TTGCGGGGAA AATTGCACTA AACAGAACC 60
TTTTCTTAAT CCATGTTGGA AGGAAGCAAC AGTGAACCTT ACCTGTTCTG GAGTTCCTCCT 120
GGGTCTGCAG AAGGTTGGGA ATTTAGAAAA TAAGGCTGTT CTTTCATATT TTAATTTAAT 180
CTCTGTCAAT GGCCATCCCT CCCACAAAAA AACGTGGGTT AAGAGAACTT GCAGACTGGA 240
TATGCAAGCA AACGGGCANC TCTGGAGAAA ANTANGGNAN GGAATGCTGA CTTTCTCTTT 300
CTNTCTCTTT GTCCCCACAC CNNTTCCCAN CCAATTACT GGGGTN 346
```

(2) INFORMATION FOR SEQ ID NO: 5870:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 187  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06973

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5870:

```
GATCCCGACC CTCACCAGTC CCATTGCTT CCCTCCAGCT CTGCTTAGGC ATTTTGCCCC 60
TCACCCCAAT GTTCCACACC ATCGACAACC AAGGGGTGAG GTGGGGACAG GCCTCAGCAG 120
GGAATGGGGC GTATATGTTA GTGTTGCTGC AACAATAAAG CCTGTTGCAT CTCTCATGCC 180
AGTGAAA 187
```

(2) INFORMATION FOR SEQ ID NO: 5871:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 135  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06975

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5871:

```
GATCTNGGAC TTCCAGAAAA CAGAACTGTG AAAAGNCAAG TTTCTGTNGT TTAAACCACC 60
```

CAATCTGAAG TATTTNGTTA TGGCAGTCCT NGGCAGACTA ATACAATATG CAACACATTT 120  
 ACAATANATA TACAN 135

(2) INFORMATION FOR SEQ ID NO: 5872:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 138
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06977

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5872:

GATCAAATAA TGATGTTAAA TTCTTAAATC ATATTTGCTA TGCAGCTGAA GATGATATTT 60  
 TGATTTGTAT TTTGGGGGTA CCTGTGTTGA GTTGATAAAC ATTTCCATCT TCATTAAAC 120  
 TGCTTCCAAA CTAGTAAA 138

(2) INFORMATION FOR SEQ ID NO: 5873:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 189
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06978

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5873:

GATCGGCGGG GCACAGTGGC TCGTGCCTGT AATCCCAGCA CTTTGGGAGG CCTAAGCAGG 60  
 CTGGTCGCTT GANCCCAAGA GTTCGAGACC AGCCTGGGCA ATACAGCGAG ACCCCATCTC 120  
 AATTTATATT ATTTAAAAAN TAATTAATGT AAGAGNAATT AAAACAGATT TTAAANNNGG 180  
 NNAAANNAN 189

(2) INFORMATION FOR SEQ ID NO: 5874:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 98
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06979

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5874:

GATCTGACTC TTCATTTNTA AGTTCCTTGT TACATCATGG TCATTNCTA GTTTTNNACC 60  
 AGACTCCCAT CTCACAATAA AATGCATCAA CAAGCAAA 98

(2) INFORMATION FOR SEQ ID NO: 5875:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 182
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06981

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5875:

GATCTGCCGG CTCCCGCCCA GCCTGTGTNG AAAGAAGGCC CACGGGCACT AGGGGAGCCG 60  
 AATTCTACAA TCCCGCTGGG GCGNCCGGGG CGGGAGAGAA AGCTGGTGCT GCAGTGGTGG 120  
 CCCTNGGGGG CCATTGATT CGCCTCAGTT GCTGCTGTAA TAAAAGTCTA CTTTTTGCTA 180  
 AA 182

## (2) INFORMATION FOR SEQ ID NO: 5876:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 87  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06982

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5876:

GATCTTGTTT TNCCTCATCT GTAAAAGNAG GTTAACAAAG CTTTCTGCC CACTTCTTGG 60  
 GGAGAAGGGA ATAACATAAT TGGTAAA 87

## (2) INFORMATION FOR SEQ ID NO: 5877:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 315  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06983

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5877:

GATCTTTGGC AGCGCATATG GCCTCTTTGG GGTTCATCGTC GCAATTNTTC AGACCTCCAG 60  
 AGTGAAGATG GGTGACTAGA TGATATGTGT GGGTNGGGCC GNGCCTCACT TTTATNTATT 120  
 GCTGGTTTTT CTGGGACAGC TGGAGCTGTG TCCTTTAGCC TTTGAGAGGC TTNGTGTTC 180  
 GGGCCCTCCC TGCACTCCCC TCTTGCTGCG TGTTGATTTG GAGGCACTGC AGTCCAGGNN 240  
 NNGTCCTCAG TCGGGGAGC AGGCTGCTGC TGCTGACTCT GTGCAGCTGN GCACCTGTTN 300  
 NCNNCANCTG CACCN 315

## (2) INFORMATION FOR SEQ ID NO: 5878:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 190  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06984

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5878:

GATCTNTTTT TTTTGGTAG TTCCTCAGCT ATTCAGGAAG GTGTATTTNT GCCAGTAATT 60



ATCCCTATGC TAATACTTTT TAAAACATTA CTAGTGAGTG CCCTAAAACA TTAGTAGTGA 120  
 GTGCCCTTTT NNTTTACAGA AGAAATTTGA TTGTTGTGAG CGATAATAAA ATTAACGTGG 180  
 ANCTCTTAAA 190

(2) INFORMATION FOR SEQ ID NO: 5879:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 322  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06985

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5879:

GATCTCTATT ATNAGGCTAG ATGTATAGCC TCTACTCCCC CAGCTTCTTG CTCTTGACCC 60  
 TGCACTGTAA GTTGCCCTTC TATTAGCAGC CAAGGAAAAG GGAAACATGA GCTTATCCAG 120  
 AACGGTGGCA GAGTCTCCTT GGCAATCAAC CAACGTTGCT ATGAAATATG CCTCACACTG 180  
 TATAGCTCAT TATAGGACGT CAGGTTTNTT GAAAAAAGTG GGCAAGNCAT GATTAATGAA 240  
 TCAGAATCCT GTTTCATTGG TGACTTGGGT GGGGGCTNTT TGAATTTTAA AAANTNNTNG 300  
 TNAGNTGTAG NNNNGTGTNT NN 322

(2) INFORMATION FOR SEQ ID NO: 5880:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 247  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06986

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5880:

GATCATGGAA TACAAGATAA TTTCTCAGGA ATCAGATGGT CTTATTCCAC ACCTGCAGGA 60  
 ATGTCAGCAT TGCAACCACC ATGGCAAATA TTGATTAAAT AANCAATTAC TATTCCCAGA 120  
 TAAGTGTCAA ANTCTTAGAN GAAATTGTCA TATCTTAGAC AATTTAGANG TGATGGAGGG 180  
 TGGATGATGA GAAATTATCG CACCACTGCA CTCCAGCCTG GGCGACAGAG CAAGACTCTG 240  
 TCTCAA 247

(2) INFORMATION FOR SEQ ID NO: 5881:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 51  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06987

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5881:

GATCCACAGT GTTGGGCACA ACTTTGACGT TTCTTAAAAA AAAAATTAA A 51

(2) INFORMATION FOR SEQ ID NO: 5882:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 276  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06988  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5882:  
 GATCCTTGAT TGGTGAAAGG ATACACAAAA TCAGGCTGCT TCAGAGGAAG TCATCTGCTC 60  
 ACAGGAATCA GGGTGAAGGC CAAGGACGGC ACTCAAGAAT TGNCCTGTCT CTAAAAAAAAA 120  
 AGCATCTGCA ACGAACTTCC TTTAATTTTT GAGTTCAGTG TCTGTGATAA TTAAGAAATG 180  
 GCANTACCAT GTATTTNCCC CAGAAGTTAA GANATATTGC TGNACGGACC ANTAAAAGTA 240  
 ATTNCAGCTC CCTCAAGNAN NATGNGGTGN GGGNGN 276

(2) INFORMATION FOR SEQ ID NO: 5883:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 54  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06989  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5883:  
 GATCGCGCCA CTTCTCTCTA GCCCAGGCAA CAGAAAGAGG CCCCATCTCA GAAA 54

(2) INFORMATION FOR SEQ ID NO: 5884:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 72  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06990  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5884:  
 GATCCTTAAT TGCTACCACA TTTCAAACAA GAACTATGAC CAATTAACT TTACTGTTGT 60  
 TGAAGTCCCA AA 72

(2) INFORMATION FOR SEQ ID NO: 5885:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 267  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS06991  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5885:  
 GATCCNTTGG GAATCCAGTT GAAGTTCCCA AATACTTTAT AAGAGTTTAT CAGACATCTC 60

TAATTTGGCC ATGTCCAGTT TATACAGTTT ACAAATATA GCAGATGCAA GATTATGGGG 120  
 GAAATCCTAT ATTCAGAGTA CTCTATAAAT NTTNGTGTAT GTGTGTATGT GCGTGTGATT 180  
 TACCAGAGAA CTACTNAAAA NAACCAACTG ATTNTTTNAA TCCTANTGTG TAGGTTAAAG 240  
 TGTCATGCCN TNNACCANTN CTAATGN 267

(2) INFORMATION FOR SEQ ID NO: 5886:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 164  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06992

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5886:

GATCATAAAA ATAGCAGNGC ATGTTNCCTG ATGATTTTAC AGTGCATATT GTCATGGCCA 60  
 GGGCTTAGAG GTAGGGGAAA AACATGTGGA CAGCTTTGTG ACAAGAGTCT CTCTTATAGT 120  
 GTTCTTTTCT AAAGTAACTT TTTCTGAGTA TGAATGTNNN NNNN 164

(2) INFORMATION FOR SEQ ID NO: 5887:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 341  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06993

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5887:

GATCCATGCA AATTGTCGCA TCCGACGGGT TAACTTCTCA GACAGACTCT ACTCAGANGA 60  
 TGAGCTGCCG GCAGAGTTCA AACTGTATCT CCCAGTTCAG AACAAGGCAA AGCAATAACT 120  
 GGAATTGTGA CTCGAGGGAT AGACCCCTGG ATGTGACTCT NCTTTTAAA AGGAAACTAT 180  
 GTGGAGGACG ATGCAAAANC ATATTTATCT TAGTTTGCTC TGCTGTAGTT CTGTTATTTA 240  
 TACTTGGTGT TGCTTGTCAT GGACACNGGT GAACATGCCG TAACTCTGTG ACTGCATTGT 300  
 AAGTGCAGTG GGGGTAAGCA GTCCTGTGGC GTGGCGCATT N 341

(2) INFORMATION FOR SEQ ID NO: 5888:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 256  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06994

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5888:

GATCCTGGAC TGGGTACCTT ACATCAATGG CAAGTTTAAG AAGGNTAATT AATTACACAA 60  
 ACCCTTCACA GACTGCTCTG GTGCCTGGTG GTGCTAGCTC CTCCCACCTC AGCACCTGCT 120  
 GCATCTGGAG CAGCCCAAGC CTCAGGATGG NCAAGNGGAA ACCCACAGCT CAGCTTCAGG 180  
 CTTCTTATGT TTCTGAAAAC AGCTTGGNTA TTTTAATGCA CGTTGCATTA AACCTCACTG 240  
 AANCATAANG GGGAAG 256

## (2) INFORMATION FOR SEQ ID NO: 5889:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 204
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06995

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5889:

```
GATCTTTGTA GGACTATATG TGTCAGTAAT NATGAGCTTC AATCCTGACA TTAATAACTT 60
ACTGTNGAGC AGAGAAGAGT TGCTTGTAAG CCTTGCTGCTT TTATATACTA NTTTAAAANC 120
TTAAAGTGAT AGTGAGCTAT GAAGTACCAA TCATGTATGA TATGTGGATA CAAAGCACAG 180
TATTATTAAA GTGTNATGTG GAAA 204
```

## (2) INFORMATION FOR SEQ ID NO: 5890:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 173
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06996

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5890:

```
GATCAGCAAT AAAAANAAC CTACAAAAA NCCTATATTC NTAATTNTT GCTTTTACGG 60
TGATATAGTG CATGCAACC AGGAGCATTT TGTGTCTTAA GAAAAATAAT CTTAGAACAG 120
ATGGCTGTGA AAATTACACC CATGCACAGN ACANGCCACA GGAATAATNG GNN 173
```

## (2) INFORMATION FOR SEQ ID NO: 5891:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 156
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS06997

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5891:

```
GATCAAATAT TGTTGAATG CCTATGTATG TCAGGCCCTG TGCTGAGCCA TGAGGATTAA 60
AAAGATGAAT AANCATATCT TGTTTAGGAA ATGGATGTAT AAAAAATCA AGTGCAATAA 120
AGTGTGTGTC CAAAAGCTGA CACAATGGAA AGGAAA 156
```

## (2) INFORMATION FOR SEQ ID NO: 5892:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 100
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06998

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5892:

GATCGCTTGA ACCTGGGAGG CAGAATTTGC AATNAGCTGA GATTGCACCN TTGCACTCCN 60

GCCTGGGTGA CAGAGTGACA CTCTGTTTGA AACAAACAAA 100

(2) INFORMATION FOR SEQ ID NO: 5893:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 65

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS06999

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5893:

GATCACTTGA GCTCAGGAGT CCTAAACCAG CCTGGGCAAC ATAGTGATAC CTTGTCTCTA 60

CCAAA 65

(2) INFORMATION FOR SEQ ID NO: 5894:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 94

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07000

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5894:

GATCTTGAAT AATTCATAAT TCTTCCACAG TAGAAATAAA ATAATTNCTG GCTAGTTATT 60

TTCTTAAAAA TAAAAAAAT TTGAAACCT CAAA 94

(2) INFORMATION FOR SEQ ID NO: 5895:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 89

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07001

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5895:

GATCCCTCTT TTCCAGAAAA TTCTGTGGAA TTTTCTGTA GGACTTTGTT CTCCACAAGC 60

TTGAATTAAA GCAGGATTCA GTTTGCAAA 89

(2) INFORMATION FOR SEQ ID NO: 5896:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 196

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07002

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5896:

```
GATCAGCTGA AGTGTGTTTT AGACCCAAAC CATCTGGCCC CTTCGTTTTG CTCAGAGGAA 60
GTAAATNTNC ACTTAAATGA AATTGAAAAC GCCATGTGGC ACCACAAAAG AGCTCTCTGT 120
ACTTNCCCCA TGCTGCCTCA AAAGTNCTGT AAGTTTCGGG GTCAGTGTCC CACCCTTCAC 180
TTCCCGANNN NNGGGN 196
```

(2) INFORMATION FOR SEQ ID NO: 5897:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 56

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07003

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5897:

```
GATCCCAGTT TGCCTTGCCA AATAAACTCT GTTTATGTGA ATTTATTAAA CGCAAA 56
```

(2) INFORMATION FOR SEQ ID NO: 5898:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 294

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07004

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5898:

```
GATCCCAGCT TTTTTCCTC TCCCACAAAA CCAGGTAGTG AAGTTATATT ACCAGTTACA 60
GCAAAATACT TTGTGTTTCA CAAGCAACAA TAAATGTAGA TTCTTTATAC TGAAGCTATT 120
GACTTGTAGT GTGTTGGTGA AATGCATGCA GGAAAATNCT GTTACCATAA AGANCGGTAA 180
ACCACATTAC AATCAAGCCA AAAGAATAAA GGTTTCGCTT TTNTNTTTGT ATTNATTGT 240
TGTCTTTGTT TCTATCTNNG ANATGCCATT TAAAGGTAGA TTTCTATCAT GTAN 294
```

(2) INFORMATION FOR SEQ ID NO: 5899:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 113

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07005

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5899:

```
GATCTCCCTA CTCCATTNNN CCCTTTAATT NAAGTGGCCA CATGTATATG TCTTCCCTGC 60
TGTGTTAGGA AAATGGGGGC TGGATATCCC AAGAATCAGA GGTTATATAN AAN 113
```

## (2) INFORMATION FOR SEQ ID NO: 5900:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 171
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07006

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5900:

```
GATCGCTTTT GTGACTGTCC ATCTGTCCTT GACAGTGGCT GTCATATTGA CTCCTTTGNT 60
GNTTTGTTGG TATTGGGGAC ATTTTCCACG GCTGAGTTNT TTTTGACTGA CATGTTTATG 120
ACATAGACGT NGTTTTCGCA TCCNTGACTT AAAGTACTT GNACNCCNTT N 171
```

## (2) INFORMATION FOR SEQ ID NO: 5901:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 76
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07007

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5901:

```
GATCTACTGT AAAAAGAGGA TTAAGNAAAA TAAAATNAGA GCAATTATAT ATATAATTNT 60
ATATCATACA CAGAAA 76
```

## (2) INFORMATION FOR SEQ ID NO: 5902:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 118
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07008

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5902:

```
GATCACGGGA GCAATGCTGT ACGGTTTTGT AACTGGTGG TTTGTTTCCT AGAAAACCCA 60
TTGTNTCTCT GGATTCTAG CACATTACTA AAAGAGCCTC TNCTTTGTAA ACATGAAA 118
```

## (2) INFORMATION FOR SEQ ID NO: 5903:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 185
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07009

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5903:  
 GATCANNCTG ANCCAAATTTA CCAAGCATT A TTAAGGAGGA ATAATNCCAT ACCATGTAAA 60  
 ATACCATGAT ATGCTGATTA TAATACATTA ACAAATTTTT AAGTTGCGTT CACTAAATNC 120  
 TGTCTGTTT CTTCAAAATA ATATAGCTTA AATTGCATGN TAATNGTATA TCTTACCTNT 180  
 TTNGN 185

(2) INFORMATION FOR SEQ ID NO: 5904:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 134  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07011  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5904:  
 GATCTACCCA ACTCTGTCAT CTGTAACAAC CAGTGATAAC TCTCTTGTCT TGTA AAAAGG 60  
 GTTTATACAT AACTTGTACA TGGTTTCATT TTGTATTTNC CGCAGATTAA AAATTTATGT 120  
 ATTTCTNTTC TAAA 134

(2) INFORMATION FOR SEQ ID NO: 5905:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 297  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07012  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5905:  
 GATCGAATTN CNACCCCTAA NCTTGTCCGG ACGTATGGTC CAAATTCANA TTAAGGTGGT 60  
 CACCCAACCC GAGATGTCAG GAAAGGCCTT CTGCAGAGAA AATNTCCCCC CACCCGCCAT 120  
 CTGCAGCCAG GTGTGTGCCA CACGGCAGCC TTCCCGAAAC ATAGTATGGA TTTTAAAAAT 180  
 GTGTTTATTT TTNTNTCTCA ACCACTTTAT AACGTATTTT TCAATTTANN TTGTAATGTC 240  
 TTGTNTTGGG GNGTTGCTGG GTATCCTTNG TTATGCTTCC CACTGTTNTT NTCACTN 297

(2) INFORMATION FOR SEQ ID NO: 5906:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 254  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07013  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5906:  
 GATCTAGAAT GGGGCTGCAA GNCGGTCCCC ATTTTGGATG GGTCACATTC AGACACCACA 60  
 CTATGGTTGC ATCACCTGTC ACACCGACCT AGACAGCTGG ATGCCATTTG GNGTAGAATA 120  
 ACCAGACTGG TGAGTAANCT AGAAATCATA TTACGTGAAG AGTGGCAAAA GGCCTGAGAN 180  
 AGTTTAGTTT GGNAAACATG ACTTANAAGG GGCATCACTG CCCTCNCTAT TTNTNTNANG 240  
 GCCTCATTTT CNGN 254



## (2) INFORMATION FOR SEQ ID NO: 5907:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 120
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07014

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5907:

GATCCATGAA GGAATCGGGA GTGGATGGAA TGCGGTAAAA CTGTCCTGGG GCCGGACCCG 60  
 TNGCCCAAAG TCCGGACCNN GACCNAAAA ACGCTTCCAT CTTAGTCACG TTAGCAGAAA 120

## (2) INFORMATION FOR SEQ ID NO: 5908:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 93
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07015

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5908:

GATCCCAATT TTGTAATAAT ATCTGTAATA TGTAAGCATA GGTATTTGTA TATCTTAAGA 60  
 AAAAAAGCCT AGAAATAAAG CCACAAAAAT AAA 93

## (2) INFORMATION FOR SEQ ID NO: 5909:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 306
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07016

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5909:

GATCTCAATN TGCAAACTCC TTGGNCTCCA GACCCCTGTC TGGNTGGNAC TCCTAGCAGT 60  
 GTGTGGTTTC ATCAGGAAAT CCTTGCAGCA GGGGNTTAGA TGGTTCCTTC AGGAGGTGGN 120  
 GAGCCTCCAT AGCATTGAAG GCCAGCCTGC ATCTCGCGGT GTGTGTCCAC TTCTCCCCTC 180  
 ACTTTCCCCT NACCCATCCN TTAAAGTGA TTGGCTGTGA GGAGCACAGA GGNGTGGCAA 240  
 TTCCATCTGT TNATGGGGTC AGAAGACATA GCCGNCATGG NGATTTCACA ATTNACCNGN 300  
 GTAAAN 306

## (2) INFORMATION FOR SEQ ID NO: 5910:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 80
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07017

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5910:

GATCATATAG AGTAGTTAAG ACAACTGTAA CAGCATTTTT TGAAATACAT GTTAAATATA 60

TAAAAGGTAA CATAATTAAA 80

(2) INFORMATION FOR SEQ ID NO: 5911:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 110

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07018

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5911:

GATCTTAAGC TCTGCTCTCA GCAGATTTC A GGTGTACCAT TTGTAAACTG TACTGAAGGT 60

GTGTCCTCAA GAAGAAAGTG TTCAAATTAA AAAAGCTGCT GCCAAGTAAA 110

(2) INFORMATION FOR SEQ ID NO: 5912:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 159

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07020

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5912:

GATCGGGAGG ACTGTGGCCA GCAATTAACA CCATGTAGAC TTCCTTAGTT CTTAAGTGGT 60

TGAATTCGCT GNTTGTCTG TAACGTTATA AATAGTNNAT ATCTGAAGAC GGAGAGCCTG 120

TANTATTCTT CAGATTAAAT GAAGCGTGAG ACACTTAAA 159

(2) INFORMATION FOR SEQ ID NO: 5913:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 330

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07021

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5913:

GATCTCTCCC ATGCCTTTTA AGCAATTAGA ACTAGATAAT GCAGCCATTT GTCACCCAAT 60

TAAATTTGAA AGGCCAGAAA TGCATGGATT AGCACTTCAG CTTTGTCTGC AGTCAAAGCA 120

ATTGTTACTT AGATAGAAGG ACAGTTAAAN TGAAAAATGA ATTTTGNTAA AANTGCGGNN 180

GTATAGATAA TATTCATTCT TNCTTTTTTA TGCTTAAACA CCCTGTATTC TGTATTNAC 240

TTGTATCATA NTTTTTCATTG CTCATTCTTA TTTCCCTGNG ATACTTATTN CTTNCACAAT 300

ATTTCTTCAN GTGGATATGT NCTTTAANTN 330

## (2) INFORMATION FOR SEQ ID NO: 5914:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 299
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07022

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5914:

```
GATCATAGCC CTNNGCCTGG CGGCACAGCA GCACTTGCCT TCTCGGGGCT GTCGATTNCC 60
TGCCACCTGG CCAGATAACC TCAAGATTTC CACCTTTTCT TTTCAGCTTG ATTGCATTTG 120
ACTATATTTN ACAGCCAGTG ATTGTAGTTT CATGTTAATA TGTGGCAAAA TATTTTGTGA 180
ATNATTTNCT AATCCCTTTC TGAGTACTCT GGGGCCCTGC ATTTATNAGG CACCTACCTT 240
CATTTTGCTA ACGCTTANNC TGAATAAAG NTTTTTGATT CCTTAANAAA AGGGNNNGN 299
```

## (2) INFORMATION FOR SEQ ID NO: 5915:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 85
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07023

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5915:

```
GATCCTTTGT CCAGAAGAAG CCCATGGAAT ATTGAATGTA ATACATTTAG TCAATTAANT 60
TTTAAGNAGA TTCTTATNTA ATAAA 85
```

## (2) INFORMATION FOR SEQ ID NO: 5916:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 189
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07025

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5916:

```
GATCCAGCTC AGGGGAGCCC TCCTCCTGAC TTTGGAGACC TCCTTCCAGA AAGACTGCTC 60
GGACTATGGA CTCTGAGCTC TTAAGTTGCA CCCGCTGTAA TACAAATNAG TTGTTTGCCT 120
GAATTCCAAG AACTGTCTCT GTGGTCTAGG CTGTCTGAAA TTTCTGTTGA GGGTAAGAGA 180
ATAAGGAAA 189
```

## (2) INFORMATION FOR SEQ ID NO: 5917:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 215
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07026

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5917:

```
GATCCCTAGG GATTNTTCAT CTTAAGACTC AAAAGGCTTA ATACCAGGAA CCACCTTGGC 60
AAGATATTTA CCCACCGGCC ATCTCTGTTT ACTCATGAAT GTTAAATGTT AAAACGCAGC 120
GCTCTAACCC TGCNTNNNAT TTA CTGCAA ATGTCTGTAA TCTGTAATTG TNATGCCTCT 180
GATGGAATAA NTTATCTTTT TCAGTCTCCT CTAAA 215
```

(2) INFORMATION FOR SEQ ID NO: 5918:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 100  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07027

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5918:

```
GATCGGATTG ATTAAAAAAC AAATNCTCTG GAATTTTNC GTTCATGCTT TTCCGTATTC 60
TTTATGGCTT TTAAATAAAT ATACAATGGT TAATAGTAAA 100
```

(2) INFORMATION FOR SEQ ID NO: 5919:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 163  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07028

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5919:

```
GATCAGGGGT CCGGCTGTCC TTCTGTCCTG CTGCAGACTA AAGGTCTGGC CAATGTCTTG 60
CCCCACCCCG CCAGCCGCGA TACGGCGCAG TTCCTATATT CATGTTATTT ATTGTGTACT 120
GACTCCATCT GCCCGTCAA ATAAAAAACC ACAAGGTTTCG AAA 163
```

(2) INFORMATION FOR SEQ ID NO: 5920:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 132  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07029

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5920:

```
GATCACTGCT GCTAGCTGAC TGGACCTCCC CATTGGAAGT TTGTAATTTT NCTTTGGCAA 60
AGTTTCATTG ACTAGTAGAA CTCATTCTGT TTTAGTGTAT ATTTCAATAT AAATGTAAAC 120
ATTTTGCTCA AA 132
```

(2) INFORMATION FOR SEQ ID NO: 5921:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 249  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07030

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5921:

```
GATCCTAAGG AAGGAAAAAG AAAGTGTTAA AAATTAATAA AGGTTTTTTT GAATCCCGTG 60
TCCTTCAAGT GCTTTCTAAC TTTGAGAGGA AGAAATTGAC CACCTGGACT ATGGAAGTGT 120
GCGTAACAGC TTTGAAAGTG TATTTAAAN TTAANTCTAT ATGCCTTTAA NTCAGTGAAT 180
TGGAACATA TTACATGNGN TTNNATGATT TNCCTCAAAT ATANTAANTN GTTTCCTTTC 240
CAGTAGAAA 249
```

## (2) INFORMATION FOR SEQ ID NO: 5922:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 191  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07031

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5922:

```
GATCTGCAAG TAGCCTAAAA ATGCGATTGC TGGTAAACCT GGCCTCAAAT TTCATACTAC 60
CATAACTNNT TTTATATATT GCCACTAATT TTGACTGGAT TTAATAGCAC TTTATTGTAC 120
AACTACAAAA AAAAANTNTA TTCCTGGANT TGTTGCCNGT GTAATTNCTC TAATGTNCTG 180
GTGCTTTNCA N 191
```

## (2) INFORMATION FOR SEQ ID NO: 5923:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 236  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07032

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5923:

```
GATCTTATTT CATGAAGGTT GTATAAATGA AATCATTCAG TAATGTATCT TTTTAAGACA 60
GGTTTTTTTT TTTNCTCAG CACAATTTCC TTGAGGTTCA TCCAGGTTGT TACCCATAAT 120
ACCAGTTTGT NAGTCTTTAT TGCNGTAGTC TATAGCATGC TTATATCACA GTCTGNCCAA 180
CCATTCACCC NTNGATGGGC ATATGGGCAT TNCCNGTTTG GNGCTATTNC AANTAN 236
```

## (2) INFORMATION FOR SEQ ID NO: 5924:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 101  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07033  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5924:  
 GATCTNTTTC ATAGTGTTCA AANCTGTATT ATTATATGTA GAGGGAAATA ATTTTCTCAA 60  
 CACTAATCGT TAATAACTAT TGTATTAAAT NGTCATNANG N 101

(2) INFORMATION FOR SEQ ID NO: 5925:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 193  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07034  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5925:  
 GATCTGCAGT TTCCCTTTT NTCCCTCTG AAGAGTGGTT CTTATGTGCA ATCTGCAGTA 60  
 ACCTTGAAGT CCAGAGCTGC ACTATAGAGG AGAATGCATG CCACTATGAC AGCAGTATGC 120  
 CAAGCTTTGT NTTTCATCTCC TAATAAACGT TAAGACCTTT GGTGTAATAA ANGCAGCAGC 180  
 ATTCACCAAC AAA 193

(2) INFORMATION FOR SEQ ID NO: 5926:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 251  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07035  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5926:  
 GATCTGGGGT AGGGGGCACC CTACAGTGGG ACCCNTCCCN CATTATTCTT TCTNTCCAGC 60  
 CCCTCCCTCC CACTGGAGCA GCTCCAGAGN CATTCTCAC CCCCCTNACC TCTCCCAGCC 120  
 AGGGCTGAGA GGATTGAGG TGGCTGGGAG GGTTCAGG CCCCCTGCCC CTNCCCACA 180  
 AACTGGGTGN TAGGGCGGAC TTACCTGGCC CAGCCCTGCC TCCNTNAGCC AACCCAGNCC 240  
 NTNGGGCTGT N 251

(2) INFORMATION FOR SEQ ID NO: 5927:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 132  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07036  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5927:  
 GATCTCGATA TTTCAAATGG GCTTTNATG CACTGTTGCC AAGAAAGGCT TTTCTTGATT 60  
 TTTTNACAAN TNAATTTTGG CACACTTTCA TTGGTGCTT TCGGCAACTT ACATTGAAAN 120

TGAGCTATTG TN

132

## (2) INFORMATION FOR SEQ ID NO: 5928:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 90
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07037

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5928:

GATCCCTGGG TTGCCCTGTC CCAACCTGCT TGTTAGGTGC TTTCCCATAG NAGGCCCTTC 60  
 TTGAGAAACA ATAACTAGG TAGAACTAAA 90

## (2) INFORMATION FOR SEQ ID NO: 5929:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 119
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07038

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5929:

GATCTCAAAA CTCATTTGTT GTACCATATA TNATGGTTTT NTGTCTATAT CATATATTTTC 60  
 CCTACTTATG TGTTTAAATN CTATTTNGTN ATGTCAATCT CTCTGATGCC ACCTATTTN 119

## (2) INFORMATION FOR SEQ ID NO: 5930:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 252
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07039

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5930:

GATCGGGGCC AGAGGCAGAA CCCTGGTGAG GAAGCTCCAG TCCTGCTCTC TACCCAGCCC 60  
 ATCTTGCCCT CATGGTGCCT CTGGAGGCCT CTGGGCCTCC TCTAACAGGG GCTGGTGGGC 120  
 ACCAAGAGNC AATGGAGTAG ACCCTGGNT GGTAAGGGNC AAGTNCCACC GGTTGCTTCT 180  
 GGGGAAGGGT TTCTAACACT AGTTTGTGTG CTGTGGTTCC TGGGGTGCCC TCCACTGCCC 240  
 TCTNTTCAGG AN 252

## (2) INFORMATION FOR SEQ ID NO: 5931:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 76
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07040

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5931:

GATCCCACTG CAGTGGTGCC TACATTTATC ATCATGGCTC CTCTGAATA AAATCTACCT 60

TACCATCTTC AACAAA 76

(2) INFORMATION FOR SEQ ID NO: 5932:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 103

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07041

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5932:

GATCAGCACA GTAATGCCCA ACAATATTGT TTTTAAACAA AAAATGTAAA CATTCAAAAG 60

AATCTCTCTA AATCACTGAT TAANTCATTT GACTGAAAAC AAA 103

(2) INFORMATION FOR SEQ ID NO: 5933:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 231

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07043

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5933:

GATCTACCCG NCTNGGCCTC CCAAAGTGCT GGCATTACAG GTGTGAGNCA CCGTGCCCGG 60

CACCAGNATC CTTTGGTATA GCCAAGCCTT TTGGTTACCG NTCATGAAG AATATGCTTC 120

CCGCATTGTC CTAGTCCCAG TTGTATTCTC ACAGGTGTTA TGNGGGGGGC ACAATCCAAA 180

TNATAAACCT GGTTCATGNC CAACANATTT NTGCTAAATA GGGAGGNGGG N 231

(2) INFORMATION FOR SEQ ID NO: 5934:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 279

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07044

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5934:

GATCTGAGCC CAGCGTACAG AGAAGGCTCT GTGCAGACAC TGCTCACACC TCCAGCTCCC 60

AGCTCACCTG CCCCACAGGT GCCAGGNTAC CTNTTTNANT GGCCAGCAGG GCCCTNACCA 120

TCCTCAGCCT GCNTTCCAGT CGCCCATTCT TTCCATTCTG CGGCTCGTGC TTTAAAAGCA 180

ACCAGCCAAC CNTTTNTGAT ATAGTAGGGG ACTTGAAAGG GGCTAAGAAG ACTGANGATG 240

GTCTGCCACC TTTAACCACA AGGNTTNGGG CTTTGGTTN 279



## (2) INFORMATION FOR SEQ ID NO: 5935:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 235
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07046

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5935:

```
GATCTAGGAG AAGGGNCTCA TCGGACCT CACATGGGCA GAAAAATGGT GGTCATTGGC 60
CGACATCACA GTTTTCNGT TTCCACCCA GCTAAAAACC GTTGTTTGCT TTAANTTTNN 120
ATAAACTGGA ATCCTTTCAC CCGCTCTAC AGCTAACCT CACANGCATG AGGTGCTGTG 180
GCTGTNCCTT ATCCTAATGA TCGCTNNGG NCCCGTAAAT GTNAACACTC ATGAN 235
```

## (2) INFORMATION FOR SEQ ID NO: 5936:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 119
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07047

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5936:

```
GATCAGTTAC ATTCATCAGT TGGTGAGTTT TGAAGAATAA CTACATTTNA TTTCAAACTA 60
ACAAATGTAT ACGGTTTTAG TTCAGTGTTG AAGAATTNA ATACAATATT AANTNNCTN 119
```

## (2) INFORMATION FOR SEQ ID NO: 5937:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 213
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07048

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5937:

```
GATCCCTTTT NAAAAATATA TGTATGCATG TNTGCATTAA AGAGTCTGAA AGGATACTTG 60
CCAAAGTGTA AAAGCATTTA TCTCTGGGAG GTGAGATTTG GAGCAATTAT ATTTNCTTTT 120
TGCATATCTG TAACTNCTNA TTTCCCNCAA TGNGCATGTA GTGTCTGTAA AATTTTCCAG 180
GGAATAANCA NTGATGTTCA CAATATATAT TNN 213
```

## (2) INFORMATION FOR SEQ ID NO: 5938:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 147
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07049

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5938:

GATCCAGACC ATCCTGGCTA ACATGATGAA ACCCTGTTGC NTGTNGTACC AACTACTTGG 60  
 GAGGCTGAGG CAGGAGAATG GCATGAACTC GGGAGGCGGA NTTGCAGTGA GCCTCCAGCC 120  
 TGGGCAACAG AGTGAGACTC TCTCAA 147

## (2) INFORMATION FOR SEQ ID NO: 5939:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 299  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07050

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5939:

GATCCTGGGA GCCTCTGTTT TTTGCGCATT TCAGACACAG TCTGTGTGGC GAGGAGTGTG 60  
 ANGGNAGGAG CCTNGGGTGC AAGCCCGTGT NTTTGGCCTC TTTCTCGTG AAGACGATGT 120  
 GTCCCCGTCA GAAAAAGTGG GCTCCNTCTG CAGCCCCGTG AGCTGAGCCC AGGCTGCGTA 180  
 GTGACCACAA GCTTATGTGN AGCACTGCTC AGGGAGGNTN TCAGGAATTC CCCTCACCTC 240  
 GGAAAGGANC TTCTCAGTTT TTATTGGGGG TGTNTAAATT TNCTTNCATA TNGTTCATN 299

## (2) INFORMATION FOR SEQ ID NO: 5940:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 186  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07053

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5940:

GATCCTTCAG GCAGTAAGGG AGAGTTTTGC CTCCTTACAC AGTGGCCTTT GCTTGCACCT 60  
 CCAGCTGGAG ATGGGTGTGC CCCAGAAGTA AGCTTTGCAT CTCTTACAAG AGGGGAGCTA 120  
 CAGGGGCAGC CGTGGCCTAG GCCCAAATC TGCTCTGAGA AAATAAATAT CTGTACCACC 180  
 TGTAAA 186

## (2) INFORMATION FOR SEQ ID NO: 5941:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 195  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07054

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5941:

GATCCGGTNA TGGTCTGGGC AGAGGCTGGG TCAGGAGTCC CAAAGGTCAG TGACAGTTTC 60  
 TCAGAAGAGG CCCAGCGTCC ACCTCTCTCC CAGGGCCAGA CACCTCTTCC TGGCTCCCCC 120  
 ATCCCCCTAT GGGCTCCAG CNCCTTGAC CCTCATTGCT GNNNAGATTA AAGCCTCTGT 180

TTTGCACCTG TCAAA

195

## (2) INFORMATION FOR SEQ ID NO: 5942:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 116
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07055

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5942:

GATCATTCAC TGTTTTNGTT TTAAACTGG TCAGTACTAT GAAGCTTCTG TGGTTTGTAT 60  
 GATGTTTAA CTTTCACTTT AAAGTGCATA GAATAATTA AATTGAAAAC ANCAA 116

## (2) INFORMATION FOR SEQ ID NO: 5943:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 116
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07056

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5943:

GATCCGNAAG CNAGANACCC TGCAGGCTGG CGGGGACCCA NGGGAAAGGC CTTCCCAGGC 60  
 CCTTCTAACC CCTGTGGCCC TGGACTTTCC TTGTNTGGAC TCACCCAGG CCTGGN 116

## (2) INFORMATION FOR SEQ ID NO: 5944:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 179
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07057

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5944:

GATCATAATC ACTGCCTTAC CNNCCTCACG GTTGTNGTAA GGACTGAGTG TGTGGAAGTT 60  
 TTTAATAAAC TTTGGATGCT AGTNTACTTA GGGGGTGTNC CAGGTGTCTT TAATGGGGCC 120  
 TTCCAGACCC ACTCCCCACC CTTNTCCCT TCCTTTGCC GGNACGNCG AACTCTCTN 179

## (2) INFORMATION FOR SEQ ID NO: 5945:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 166
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07058

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5945:

```
GATCTAGATT AGCAATATAA AGAAGCATAG TGGTACTCTG TTTCACACTT TCAGTAGATT 60
TATTAGAAGT CAAATNCTAT TCAACAGACA CTTATTAGGA TATACAACTA ATTTANGAAT 120
AAAATTCCAG GCACAATATA TTTNNNTNAA NTGGTATTTG TNAGTN 166
```

(2) INFORMATION FOR SEQ ID NO: 5946:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 230  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07059

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5946:

```
GATCTTTTGT GACTACAACT TCTNTTGTA ATAATGATAT ATGGTATTNC CATCGTCAGT 60
TACCGAGTAT AGCCACTGGG TATCACTACT TTGTGTTAAA GTGCCTTCGC ACTTTAAGTA 120
CATTACTTAA ATGTTGCTTT TAGCTTTGAT AAATTGAAAA TATTTNAATG GGNNGGGGNN 180
TTGAAATTGA AAACACTGTA AAATAGGTTG GNGTGTGACG NNTATTANGN 230
```

(2) INFORMATION FOR SEQ ID NO: 5947:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 177  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07060

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5947:

```
GATCCGCCTA CCTTGGCCTC CCAAAGTGCT GGGATTACAG GCATGAGCCA CCATGCCCAG 60
CCAGNGATTT AATTNTTAAT AACTAATTTN AGGGCACAAT TTGACCTCCA TTGNCAGCCT 120
GTTTGTATTA CTTAATGTGA ATATNTGTGT GTTTTGCCAN GGGNTATTGA NGTATTN 177
```

(2) INFORMATION FOR SEQ ID NO: 5948:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 96  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07061

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5948:

```
GATCTCCAGG CCCAGCCTGG CCCCAAATAT TCTTTCCTTT CATCCTCAGC AAGTGCTGAG 60
TCTGTGAATA AAGCCACATA ACCAGCGGGC ACTAAA 96
```

(2) INFORMATION FOR SEQ ID NO: 5949:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 191

(B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07062  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5949:  
 GATCATAAAG CCACCGGCCA CTGCCACGCA TGTTCACCT GTGCCATCGT GCTCCCTCCT 60  
 GATGGGCACC GTGGTGGAGG AAGTCACCCA GCTGTTTCTC AGTCCCAGAG GCCGGTGGCT 120  
 GGTTTTAAAC TTGTGTTGAC TGTTGATACT TATTTACTGT ATAAATATAA TTNATCATTT 180  
 GTACCATGAA A 191

(2) INFORMATION FOR SEQ ID NO: 5950:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 109  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07063  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5950:  
 GATCCAACCTG GGAGAACCTC AGCCAATGCT GGAAGNATGA TTGAAGTACC TCTCTTTTNT 60  
 NACTCTTGTA CAGCTTAATG TGCAATAAAG GAAAAGTTAT ATCTGTAAA 109

(2) INFORMATION FOR SEQ ID NO: 5951:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 216  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07065  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5951:  
 GATCGACCTG AAACCTCCTCA CCAAAGTNCT CGNNCCGGAG CACGAAGTCC GGGAGGATGA 60  
 TGTCGACTGG GACTGGGACC ATCTGTTTAC TGAGGTGTCC TTAGAGGTCC TCACTGAGTG 120  
 GGACCCACTG CAGACGGAGA AGGAGNACCC TGCGNNGCAG GCCATNCACA CCTNAGCCCCG 180  
 TCACCCATGC TCTAGACATN AAGAANTGCA ANGGGN 216

(2) INFORMATION FOR SEQ ID NO: 5952:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 192  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07066  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5952:

GATCCACCAA AATAAATGAT TTTCTACATT TTCATTTGGA CTAAATCCCA CGAATGACAA 60  
 CTACCACCTT TTTTGTCTTT TTAATTAATA CTAAATATTG TGATTCTTA TTTGAGGTTC 120  
 AAAATGACCT GCTTGAAACT TTGATACATA TTGAATACA TTATGTTAAT AAACCTGTAG 180  
 CTTTTTGTGA AA 192

(2) INFORMATION FOR SEQ ID NO: 5953:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 298
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07067

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5953:

GATCACACCC TGGAACAATT GNGGATTGC TTGCTGCCCT GCATCTTAAG GCGTATTCTA 60  
 GCAGCAAAGC TTGTNATGCA CTGACTTGGG GCAAGTAAA CTGATGCTGA GGACAAAGGG 120  
 AGANGATGTT CCTCGCCCAG GGAAATNAAA ACTTTNCTNA TTCACCTTGC TTGTGCTTAA 180  
 NCACCTATGT NCATCTAGTG TAGAATACAT GGCTACTTGT TTGTAATTNT NTNATTGGTG 240  
 GAATTAAAGT AATTTTCCCT TATCTTTGAN CTTTATTTA GAGAACTNAA ANAAAGCN 298

(2) INFORMATION FOR SEQ ID NO: 5954:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 250
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07068

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5954:

GATCTNCAGG GGNATGTTTT ACCATCTGNA TCCAGCCTCC TGCTAACTCC TAGCTGACTC 60  
 AGCATAGATT GTATAAANTA CCTTTGTAAC GGCTCTTAGC ACACTCACAG ATGTTTGAGG 120  
 CTTTCAGAAG CTCTTCTAAA AAATGATACA CACCTTTCAC AAGGGCAAAC TTTTTCCTTT 180  
 TTCCCTGTGT ATTCTAGTGA ATGAANTCTC AAGANTCAGT AGANCNAATG ACNTTGGNAT 240  
 GTAATGNTNN 250

(2) INFORMATION FOR SEQ ID NO: 5955:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 135
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07069

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5955:

GATCCGTNAA TNCNCGGAAT GGCAGGGGAA GCCTTGCACT AGGTTGCAGA GAAGCATCCT 60  
 CCACATCCTG TGTCAGAAAC CCTGGTCTCC GTGGCACTTG TAACTCACCG TNCTGTCTNC 120  
 TGGTCTGTNT GTGTN 135

## (2) INFORMATION FOR SEQ ID NO: 5956:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 193
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07071

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5956:

```
GATCTAGAAT TGACATTTTG CCTTCTTGTT TCCAGGTGTT TCTATTTTTT CTATTCCTTC 60
AGAGAAATCT CATATTTTCGG TGTATTTATT GCTGTACTA CTATATTTAC TGCTGAAAAC 120
TGTAACAACC TGAAGATTTG TAAAATGTTA AACATAGTTC ATTAAAAATA ATAAAATAAA 180
TCTAAATGT AAA 193
```

## (2) INFORMATION FOR SEQ ID NO: 5957:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 273
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07072

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5957:

```
GATCCTCCAA AGGCCTGCCC CATGNATTTA ACAGTAATAC AGGAAGCATG GCAGGCACCA 60
TGCAAACCAA GGATGGATGG TGCAGTCCCT GTGTCAGTGG GCGGTGGTTT CCTGCTGGCC 120
TGGAATCACT CATCACCTGA TTGATTGGCT CTGTGGTCCT GGGCAGGTGC CTCATAGGTG 180
TGTGGNTATG ATGACGTTTC NNTAAAATGT ATGTNTTTAA CANATACTNA ATNGTATTAN 240
GGTCATGTAC CAATGGNTTT NATAATGTTT NTN 273
```

## (2) INFORMATION FOR SEQ ID NO: 5958:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 108
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07074

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5958:

```
GATCAGAAAG NATTAATAT CACTACCACA TGAGTTAAAA CAAAAAATGG AATAAAAAANC 60
AAAAGTGGTG TCTATGTTAT CAGTGGNTTA CTTGATAGGN CATTNAN 108
```

## (2) INFORMATION FOR SEQ ID NO: 5959:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 256
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07075

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5959:

```
GATCTTCACA AGGNTTGTAT TGGCCACATC CACGTCCTCC GAGCCTACAT CAAGACCCAA 60
GTGAACAAAG AGCTGGAGCA GCTCCAGGGG CTGGTGGAGG AGCGGCTCAA GGCCAGCGAG 120
GAAAGGCTCA GCAGCAAGTT GACTGCACTA GAGCGGCCCT TCCAGCTACC TCCGGGTAAA 180
GGCAAGAGCA AGACCAAGTG ACCCCCAACA TTTTCCCCAA TAAAGGTCTG GGCCAGANTG 240
GCACCATCCC TGCAAA 256
```

(2) INFORMATION FOR SEQ ID NO: 5960:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 262  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07076

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5960:

```
GATCTAGTCA TCTGGTTAAG GATTTTAAGC AGATGCAACT ATAAACCCAA GAAACTGTAT 60
TACTATTACT GTTGGTCATA CTAAACCTGT CTATTTCTTG AAGTATATGA CCCACAAGGA 120
TGTGGAATAA CTAGGAGAAA CTGTTTTTGT AACTGTACA TCCTTAGTAT TTTTACACGT 180
ATATGATAGG GATGAACATG ATTTTNTTTC GTACAGACAG CTTANNTAAN GCACTATGTC 240
ANTCTGCAAA ANAGNNNNNN NN 262
```

(2) INFORMATION FOR SEQ ID NO: 5961:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 295  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07079

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5961:

```
GATCTCAGCT CACTGCAACT NNTGCCACCT GGGCTTAAGC CATCCTCCCA CTCAGCATC 60
CCAAATAGCT GGGACTGCAG GCACACACCA CCACACCCAG CTAATTTTNG TATTTTGT 120
AGAGACGGGA TTTCACCATG TTGCCCAGGC TGGTGTGAA CTCATGAGCT CAAGTAATCT 180
GNTGGCCTTG GCCTCCCAA GTGCTGAGAT TATAGGCGTG AGCACTGCAT CCAGCTCACT 240
CCTNATTTCT TTCTAGCCCC AAAGGGGTTG AGTCAGCAA TCCTNCAGCC TTTN 295
```

(2) INFORMATION FOR SEQ ID NO: 5962:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 272  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07080

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base



## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5962:

```

GATCCTGGAA TGTCTGCTGG AGAAATTTAA AATACNGGGG TTTTTNTTTT AATGGTGCCT 60
ATTTAGAGTT GGAAGTTGAA CAGCTGTTGC ATTACATACT TTCCTTTTTT NATTGAAATT 120
TTGAAATCAA ACGTCTTGAT TTCCTNTCC TGTGAATTG CTATGTNCAG GATGTCCTAG 180
GGGGTGGGGG CAGGGACTCT TTCGTAATA AGCACTTGTN TTATNTGGTG TGTGTGGNGT 240
ATAAANGGCT ACACCCTTAT TNTAAAAANN NN 272

```

## (2) INFORMATION FOR SEQ ID NO: 5963:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 91
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

```

(B) CLONE: HUMGS07081

```

## (ix) FEATURE:

```

(D) OTHER INFORMATION: "N"=unidentified base

```

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5963:

```

GATCTGTCGT CTTCAAAAAA ATGGCAAAGT GGGAAATGTG GGAGGGGAAA ACACTTCAGA 60
ATAAAAGAGA TTTAAGAGAT GTATCAACAA A 91

```

## (2) INFORMATION FOR SEQ ID NO: 5964:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 194
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

```

(B) CLONE: HUMGS07082

```

## (ix) FEATURE:

```

(D) OTHER INFORMATION: "N"=unidentified base

```

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5964:

```

GATCAGGTTG TCTGCATTTG TTGGTGTAAG TGAACATCAT CACAGTTATC CTGAGTTGAG 60
TTTAAGCCAA ATANATGCAT AGAAAAGGGT CTTCTATTA ATGGAAGANG GTAATTTTAA 120
GGATGTGTAT TATTTAGTTT TTGTATGTTT AACTNTNATT NAATAAAGTG TTTTAAAAAT 180
CNCAAAAATN ANNN 194

```

## (2) INFORMATION FOR SEQ ID NO: 5965:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 266
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

```

(B) CLONE: HUMGS07083

```

## (ix) FEATURE:

```

(D) OTHER INFORMATION: "N"=unidentified base

```

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5965:

```

GATCTGCCTG AAGAAAATAT CTGTTTTCTA TATAAAAAAA TTTTTTAAAA TAATTGTAAA 60
GTTAGATTTA AAATTGTAAA ATATAAATC ACAAAGGAAT GTACCTTATG AATGTTGTTG 120
ACATTTTATG AAATTATGTG GATTCATATT ACTGTTACAA GATAGANTTG AATGCAAAAA 180
GTCCAAAACC TCAATAAANT TTGAGGAAAA CGTGTTATTA TGTAATTGAN NTANAANCAT 240
TTTATAATTG TGCANGTNAN NNNNAN 266

```

## (2) INFORMATION FOR SEQ ID NO: 5966:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 256
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07084

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5966:

```

GATCCTTTTNN AGTTTTTCCA GGTGAGAAAT CCTATCAATT ATGTNATAAT NATATGTTTT 60
CCTNTTCAAAA ATTTATAACA TAATTCCTGA CTGCATGGGT TAAACATTTN CATAACAGTG 120
CTAAATAATA AAGGTGGCAG TGGCATTITT GTCTTGTTTC TCATTTTAGC CAGAATGTGT 180
TTGCTACAGC AATCCCAAAT TGTGTTTTGT GAAAAANAAA TATTCTNCTT NGGAGACANG 240
GNNTNTACAT TTGCAN 256

```

## (2) INFORMATION FOR SEQ ID NO: 5967:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 119
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07085

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5967:

```

GATCAGAACA GGCTTAAATT GATGCTATAG AACCAATTAC TCTGTATTAT CTTTGCAACT 60
CTTTTGTAAG TCTAAAATTG TTTGGNAATA AAAGTTTATT TTAAANNTTA AAAAAANANN 119

```

## (2) INFORMATION FOR SEQ ID NO: 5968:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 146
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07086

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5968:

```

GATCTTCTAA TCGACAATCT ACATCATAGT GACCACCAGT AATCACCTGT AAGAGATTAA 60
AAAAGAAAAA TCACTGTGAA AAGTGTGAAA AATTAATCAG ATTTAATCAG ATTCCTATT 120
AAAATGGCAA TAAGGTGATG GGCAAA 146

```

## (2) INFORMATION FOR SEQ ID NO: 5969:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 203
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07087

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5969:

GATCTGGTTA AGTGTGCGGC ATCTCATCCC CCACTCTNTC CTTTCTTGCT CCTGCTTCCC 60  
 CCTTATNACT TGCCAGCTCC TGCTTCACCT TCCACCATGA GTAAAAGCTC CCTGAGGCCT 120  
 CCCCAGAAGC CAAGCAGATG CCAACACCAC GCTTCCTGCA GCCTGCAGAN CTGTGAACCA 180  
 ATTAAACCTC TTTTCTTTAT AAA 203

## (2) INFORMATION FOR SEQ ID NO: 5970:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 72  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07088

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5970:

GATCTTCCAA AAATTTATTA AGTGTCTTACT TTAAAGTGG AAACAATGTT TTTAAGAGGT 60  
 GATATAAAGA AA 72

## (2) INFORMATION FOR SEQ ID NO: 5971:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 106  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07089

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5971:

GATCCCTAGC TTGTTTTCTG TCAGTCATNC ATTGTAAGTA GCACATNGCA ACAACAATCA 60  
 TGCTTATGAN CAATACAGTC ACTAGGTNTT AGTTTTNTTT AAATAN 106

## (2) INFORMATION FOR SEQ ID NO: 5972:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 212  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07091

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5972:

GATCTGTGTG ACTGATGGGC AGGGCTCAAT GATGCCCAT GAAGTGAAGT TACTGCTCAC 60  
 ACCACTGACC TGGACCCNAA CAAAAGCTG ATTGTCTTTT TAAAAGTTAT TATTTTGCCC 120  
 TGAGCAAATT GCATTTTANT TGGGGCAGTT GGAGTGTGTA NTTCTGGCA GCATTGTGAA 180  
 GNNGACCNG GTGGANGTTT NCTGTCCNG GN 212

## (2) INFORMATION FOR SEQ ID NO: 5973:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 215  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07093  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5973:  
 GATCTACCCA CCTTGGCATC CTAAAGTGCT GGGATTACAG GCGTGANTAC CAAGCCCGGC 60  
 TTTTTTTGTT TTGACATGGA GTTTCGNTCT TGTCACCCAG GCAGGAGTGC AGTGGCGTTA 120  
 TCTNGGTTCA CTGCAACATN CGCCTCCTGG NTTCAAGTGA TTCTCCTGCC TGAGCCTCCC 180  
 ANGACCTGG GNTTACAGGT GCTCCNACCA AGNTN 215

(2) INFORMATION FOR SEQ ID NO: 5974:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 140  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07094  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5974:  
 GATCTGGAGG TTTACAGAAG CCTTTACCCA TCCTGAGACT CAGTTCTGCT GTTGGTCTNC 60  
 AGAGAAGTGT CTGCACCTGC TGAGANGNAA TCACACCACT GCACTCTAGA CTGGGCAACA 120  
 GNGCGAGACT CTGTCTCAAA 140

(2) INFORMATION FOR SEQ ID NO: 5975:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 133  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07095  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5975:  
 GATCTGTTGA AGAACTCAGC TGCTGGAAAC CATGCAAAT GTTTTGAATT GCCCTTAAAA 60  
 TATGGAAAAT GTTTTCTGAA TGCTTTATAT TCTTNCTGCT GTAAATTAAA AATGANGAAA 120  
 ATTTCCCAT AAA 133

(2) INFORMATION FOR SEQ ID NO: 5976:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 144  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07096  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5976:  
 GATCCCTGCC CTTTGGCACA TCCACTGAAA GGCCAAACAG CAAGTCCGAG TGAGTTTAA 60  
 ATATTAATTA ATCACCCTTT ATTTTITACA CTTGAGAGTG ATTGTAATAA AGGCTGTCAT 120  
 TAATAAACTT GGTTCACCT TAAA 144

(2) INFORMATION FOR SEQ ID NO: 5977:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 114  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07097

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5977:  
 GATCTAGAAA TTGCCCTCCT TTTACCCCTA CCATGAGCCC TACCAAAACC AAACCTANCC 60  
 CTGGGCAACT AANTAAGGTT ATTGGACATN CCCTTCTNAA TTAATNATCC AATN 114

(2) INFORMATION FOR SEQ ID NO: 5978:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 112  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07098

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5978:  
 GATCTGACTT CAGACAGAAA CCAATACCAG CTTCTTTTC CTTTAAACNT TTGAAGAGTG 60  
 TTGATTGTGTT ACTATATTAC GTATGCAAAA CTGGAGAGNG TATNGNTNGA TN 112

(2) INFORMATION FOR SEQ ID NO: 5979:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 131  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07099

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5979:  
 GATCCGTCCC TAACAACTA GGAGGCGTCC TTGCCCTATT ACTATCCATC CGTCAATCCG 60  
 TAGCAATAAT CCCATCCTN CGATTATATC CAAACAACAG ANGCAATTGAT ATNNTNGCCC 120  
 NACGTAAGGG N 131

(2) INFORMATION FOR SEQ ID NO: 5980:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 126  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07100  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5980:  
 GATCATGTAG GACGNGGCAT CCTGCCCCCTG GTAGAGAGGA CGAATNTTCC AAAACANTGG 60  
 GCTCTACGGN AAAAAGAAGT AGGTTAGTCA CCTTCTGGAC CCTGTCTAAC TCGTTTGCTN 120  
 AANAGN 126

(2) INFORMATION FOR SEQ ID NO: 5981:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 79  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07101  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5981:  
 GATCTTATTT AACCAAAGAC TATTTTCATTC CTGATATGAT TTGTGTGCTT GATTAAAAATG 60  
 GNANTTAATG ATATTGAAA 79

(2) INFORMATION FOR SEQ ID NO: 5982:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 271  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07102  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5982:  
 GATCAACAGG CTTATTAGAA GAATGAACTA AGGTGAGAGA CCTCATCCTG AGAAAGGTTG 60  
 AGTTAATGTT AGAGTATAAG TGGTGGTAAT CTTGAATACT TTTCCCATTA AATATTGATG 120  
 GGGGTTTGAN TTTTAATCAG TGCTTTTNTG GGNAGTGGGG GTCAACTATC TTAATGATTA 180  
 CAGTTGGTTT GTTTACTGCT TTTGAGGACC TTTCTGGAGG AAAGGAAAAG CCTGTTTTTG 240  
 GGAGTCTTTA AAGATGGAAA TTGGGTGGTC N 271

(2) INFORMATION FOR SEQ ID NO: 5983:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 125  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07103  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5983:  
 GATCAATATG TGA CTGGAAC CATTGGCGAG GATGAAGATT TGATAAAGTG GAAGGCACTG 60  
 TTTGAGGAAG TCCCTGAGTT ACTCACTGAG GCAGAGGAGG ANGNATTGGN TTNNGAACCT 120  
 GCNTN 125

## (2) INFORMATION FOR SEQ ID NO: 5984:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 73
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07104

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5984:

GATCTNATTG TATTGTCGAA GGACTATTTT TNAACCTGTC CAAATAAACT CTGCAAAGNA 60  
TTTCCACAAG AAA 73

## (2) INFORMATION FOR SEQ ID NO: 5985:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 331
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07105

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5985:

GATCCTGCCC TGCTCTCAGC CATAGTGAAG GACCAGCCCT AGGAGTCTGC GAGAGCCTCC 60  
TTGGTTCCAT CGTGAAGCCA TAAACAGGAA TGCCTTTGGC AATAGCCTTG AGCCTAGAGG 120  
GCCCTCTNAT GCCCCACTGA GGTGCTGTTG GTTTATTGCT GGCANCGTGA ATTCTCTCAG 180  
GGGTCTAGGA GGGGCATTTT GGAGACTGCC TGACANCACC NCTATCCCCT GCCTCCNNN 240  
CTNAGAAGAG GGTGGAAGNA TGAAATGAAA GCTATGGGNC TTTTGGGAGG NTAACCCAGN 300  
GTCTATTCTA GGGTTNGNGG AAGTGNNTAA N 331

## (2) INFORMATION FOR SEQ ID NO: 5986:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 107
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07106

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5986:

GATCCCCTGG CCTGGTGCCC AACTGCCTC GCAAGCGCTC GCCACCCTCA CGTGGCTCAC 60  
CTGCTGTTGA GCCTTGTGCT GTCAATAAAC GGTTTGAGGA TTGCAAA 107

## (2) INFORMATION FOR SEQ ID NO: 5987:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 83
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07108  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5987:  
 GATCAGATAT ATCCACAACG NGTTTAAGAT TTTCAATATT CTTAGAGAAA ATCAATAAAG 60  
 TCAATAACTA CTCCACCATG AAA 83

(2) INFORMATION FOR SEQ ID NO: 5988:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 157  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07110  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5988:  
 GATCAAAAAT TGTGGACATA TCTGCAAATN ACTACCTATA GCCTCATGAA AGTACATTTTC 60  
 ACAAATGTA AANNNCAATG AACACTAAAT TTAAGAGCAG TTACAGTGTG ACTCACTCAT 120  
 GTTTAAAAAA ANTCGGNGAG CTAAAAANTA CGTCTAN 157

(2) INFORMATION FOR SEQ ID NO: 5989:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 280  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07111  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5989:  
 GATCGAGTCT GCTCTGACCT CTCAATCTCC TTTCTCCCC AGGCTGCTGC TCCTGCTGCC 60  
 CTGTGGGCTG TGCCAAGTGT GCCCAGGGCT GCATCTGCAA AGGGGCATCG GAGAAGTGCA 120  
 GCTGCTGCGC CTGATGTCGG GACAGCCCTG CTCCAAGTA CAAATAGAGT GACCCGTAAA 180  
 ATCCAGGATT TTTTGTTTTT TGCTACAATC TTGACCCCTT TGCTACATTC CTTTTTTNCT 240  
 GTGAAATATG TGAATAATAA TTAAACACTT AGACTTGAAA 280

(2) INFORMATION FOR SEQ ID NO: 5990:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 205  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07112  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5990:  
 GATCTCCAAG CAGGAATATG AGGAGGGCGG GAAGCAGTGC GTGGAGCGAA AGTNCCCCTG 60  
 ATGGCACTCC TCCCCACACA CCTGCTCCCA AGCTCAGATG GAAGTCCCTT AACCCCCATG 120  
 CCACATTGCC CCCCTCCTCC TTTCCCTCTT GTCCTCATTA ATGGTGATGT TTCTGGGTTG 180  
 AAAGAAGTAA AAATGTTTTA AGAAA 205



## (2) INFORMATION FOR SEQ ID NO: 5991:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 127
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07113

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5991:

```
GATCTTTAGC AGTCTCTTCT AGTTTCCCTG GATTTCACTG ATTTATTANT TAGGGAAAAT 60
GAAAAGAGGA CCTNCTGTC CGCCTGCACT GCTTACTGGT AAATAATAAC AAATTATGC 120
TGCCAAA 127
```

## (2) INFORMATION FOR SEQ ID NO: 5992:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 240
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07114

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5992:

```
GATCGCTTGA GCCTGGGTAG AGGCTGCTGT GAGCTGAAAT GGCGCCNCTG CACTCCAGCC 60
TGGGTAACAG AGCGAGNCCC CGACTCAATA AATAAATAAG GATGGATAAA TTGTAGCGTA 120
TGCACCATTC ATTATGCTAA GACATTTTAA AGTAATTATG AGAAACGCTC TACTAATGAT 180
TTGTTTTTAT TTGTATTTTN CTGCTTATTA GACAAATATA TNCTCATTTT AAAANGGAAA 240
```

## (2) INFORMATION FOR SEQ ID NO: 5993:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 328
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07115

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5993:

```
GATCAGAACG AGCTGTTAGA ATTCAGAGTG CTAGAACTCG AAGTAAGAGA CTCTATCTGT 60
TGTAAGCTCT CAAACGGAGC AGACATTCTC TTTGAACCCA AACTGAAATT CATGTAAAGC 120
TCTCAGATGT TTTCAAGCAT GTGTAAAGGG GACATGTTAT AGTTTCTTTC TTTCTTTCTT 180
TCTNTNTTTT TTTAAANCTG TATGTNCAGA ATANTTNCNC TGCCTTAATG TGTNCTGGNG 240
AGCGTGCTCA CCCAGGNCTN TGGCCATGTN CCAGAGCTAA TATATTTNTT GCCTATGGCT 300
TNGTNTGGCA CTTAATGAAT ANTTGTGN 328
```

## (2) INFORMATION FOR SEQ ID NO: 5994:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 250
- (B) TYPE: nucleic acid

(C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07116  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5994:  
 GATCTTCAAA ATCCAGGAGG GAACCGAGAT AACACAAGTA CAGGTGTGCA AAATTACTTA 60  
 GTAAACTAT TTNTTCTATT ACTCCTTTTT TGCAAGTACA TACATTAAAT GATAANTTNA 120  
 TTGTGAAGTT AATAAANTGC CCATAGCTGT TCTATTACCT TCAGAAACTA TTTTCATAAT 180  
 TGANAAANAC TTGGNGTAAG TACATGTGTT ATATANCACC TACCCTAGNT GCTCAAGTGC 240  
 GTNNNGGAGN 250

(2) INFORMATION FOR SEQ ID NO: 5995:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 132  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07117  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5995:  
 GATCCTCCTT CCTCAGCTAC TCAGGAGGCT GAGGCAGGNG AATGGCATGA ACCCAGGAGG 60  
 CAGAGCTTGC AGGGAGCCAA GATTGTGCCA TGGCACTCCA GCCTCGGCGA CAGAGCAAGA 120  
 CTCCGTCTCA AA 132

(2) INFORMATION FOR SEQ ID NO: 5996:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 78  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07118  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5996:  
 GATCCTATAG GGAGGNCATT TCCTGTCCTG GAATTAGTAT TTCTAAAATG TGNATAAACT 60  
 TGTTTTATAA AAAGCAAA 78

(2) INFORMATION FOR SEQ ID NO: 5997:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 118  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07119  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5997:  
 GATCAGAAAG TGTTATTTAA CAGAACTAC ATACATTTTT NATGTCTCTC TGGACCCTTT 60

GATTCTAAGT AAATTTNCAG TAAGTNAGCA GTAATAGACT ATCCTNTTCA NCTATGAN 118

(2) INFORMATION FOR SEQ ID NO: 5998:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 60
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07120

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5998:

GATCAAAAAG AGGAAACTTG AAATGTGATG GTGTTTATAA TAAAAGATGG TAAAACATAA 60

(2) INFORMATION FOR SEQ ID NO: 5999:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 127
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07121

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5999:

GATCTCCTTC AGAATTTTTG TCTTGACTTT GAATCTTTC CTGTTTGTCT AAACATTTGA 60  
CTAACATTCT GTTTGAATTT GGAAGTATTC TAATACAAGA TTTGAATAAA GTTTATCCTT 120  
AAATAAA 127

(2) INFORMATION FOR SEQ ID NO: 6000:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 195
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07122

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6000:

GATCCTGGAG CTGGAGCATG AGTGTCTGAC AATCAGAAGC ATGATGTCCA ATGTCNNGAT 60  
GGCCAGAATG AATGTAATAG TTCAGACCAA TGCCTGNCCA CTGCTCCTTT ATGACTGCAC 120  
TTCTAGCCAG TAGCTCTGCA CAAGTNAGCT CTGTAGAAGT AGGANCTTGG GCTTAAGTCN 180  
TGNGCTNTNT CTCN 195

(2) INFORMATION FOR SEQ ID NO: 6001:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 156
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07123

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6001:  
 GATCCCAGCA TGGGGTGAGC ATGAAAGAGT GGCAAACAGA GTGGCATAAG ACAGATAAAA 60  
 TACAAAAGGC AATTACAAA GGACCAGGAC CGCAGAGGCA GAGATAAACC AGTGGGCTCA 120  
 GACTTCTGAG CGTCTCAGAN AAANNNAAN AAANN 156

(2) INFORMATION FOR SEQ ID NO: 6002:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 177  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07124

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6002:  
 GATCTGTCTA GCTTATTAAA GATGAACTG AATTGGAAAA ATAGCTCCAT TTTTGGTGC 60  
 TTGGGAAGCA CAGTGACCAA AAAAGTTGTA TGGCTGCTTA TTCATTAGTC TTTCTACTG 120  
 ATGTCAAATC CATGGTACCT AGAGTTAAAT AAAATTCCAA TGCTCTTACT CTTTAA 177

(2) INFORMATION FOR SEQ ID NO: 6003:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 305  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07125

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6003:  
 GATCCAGTTG GGACTAAGTG ACATCGTATC GGTTCCTGTT CAGATGACAT GGGGAAGATG 60  
 ATGGTTCAGC CACTGGTACT ACGAGAATGT TTGTATTACC CACATTTGAA TTNATTTGCT 120  
 ATGATTTTNA TGAAGATTAA AAATATATAC ACAGTTCCTG GTATGTTGAG GTTGTCTTTA 180  
 TTATTCTTAC TCAGAAAGGA AAATTTGTAA ATATGTTTGT GTGGCTCAA CTGATACTAT 240  
 TCTTACANCT GGANCATTGA AAATNCAGAG GGCTGTATTT GGNTATTAGN GAGGNCTCCG 300  
 AATGN 305

(2) INFORMATION FOR SEQ ID NO: 6004:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 307  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07126

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6004:  
 GATCCTCAGG CTGGTATACG GCGCAATGTT GCATCAGCTN TGGGCAACTT GGGNCCTGAA 60  
 GGTGTTGGGAG AGGAGCTGTT ACAGTGCGAA GTACCCAGC GGCTCCTAGA AATGGCATNT 120  
 GGAGACCTC AGCCAAATGT GAAGNAGGCT GCCCTCATTG CCCTCCGGAG CCTGCAACAG 180

GAGCCTGNCA TCCATCAGGT ACTGGTGTNC CTGGGTGCCA GTGAGAACT ATCCTTGCTC 240  
 TCTNTGGGGG GNTCAGTCAC TGCCACACAG CAGTNCTAGG CCTTGNCTGT GCCAAAACAA 300  
 TTGNANN 307

(2) INFORMATION FOR SEQ ID NO: 6005:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 215
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07127

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6005:

GATCTCTCTC CGGCCCCCTA GAAGCCCTCT CCTCACTGCA GCCCTGGTGC TCTGGGGAAG 60  
 GAGGGGCATT GACAGGTGGT TTGACTGTTC ACCCAGCAGC CCCGCTTCCC CACTGGTTTC 120  
 TCTCCTGGCT GCCGGCGGNG GTAGGCTGGG AAAGCTTCCC CNTCACCTAG GNCGGGCCAG 180  
 CACCGGCCNG GGNCNNAAGA GGTCNCTNN ATCCN 215

(2) INFORMATION FOR SEQ ID NO: 6006:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 273
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07128

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6006:

GATCCGAGGG GAAATNTTTA GAGCCCTCAG GAGGAGGAAG AGACCGAGTT TTAGGAAAAA 60  
 CATCAAAGCT GGATAGGTTG GGCAGAAGAG CTGGGGATAG CATTTAGAGA GGCTGAGAGT 120  
 CCTGGGTTCT GGNTTATCAC GTGTGAGNGA AACNGGAGGT TGCTANTTGT AGGTGGGCGT 180  
 CAGGNCTNGA GTGNTGCTTC CAGANGTTTC TGCAAGTGGG CCGGGTCTAA GNTAGGGCAT 240  
 GTTACGCCAG ANGTTTNAGG GNCAC TAGGT AGN 273

(2) INFORMATION FOR SEQ ID NO: 6007:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 250
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07129

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6007:

GATCACAGGG AAAAACCGAC CGAGCTCAGG AAGCCTAATC CAGGTGGTAA CCACAGAAGG 60  
 AAGGACGGAA CTCACCCAG CATATTTTTA GGCCTCATCT CAGTGCCTAT NAGGGGCCTG 120  
 CCAGNAAGGT CACTAACCTG GTCTCAGTGT GGCCTTGTC AGCCTTGTTT TTNCTGTTAA 180  
 CCCCNTTTG TGGTACGAGN TATTGNNTCC TATATTACGG ANACAGANCC NTGNTTTCGG 240  
 NTTTTGCATN 250

## (2) INFORMATION FOR SEQ ID NO: 6008:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 106
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07130

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6008:

GATCCCAGTN AGTCATGAGC CTCAACCCCC TCCAGCCCAC TGGGGCTCTN ACCTCCACAT 60  
GTGGGTAGAA GCTTNCCTGC CCCCTTTNCC TCCAGGAAGC CCTNAN 106

## (2) INFORMATION FOR SEQ ID NO: 6009:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 108
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07131

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6009:

GATCGCCTGA GCCCATGAGG CCAAGGCTGC AGTGAGCCAT GGTCACGCCA CTGNATTCCA 60  
GCCTGAGTGA CAGAGCAAGA CCCTGTTGAA AACAACAACA ACANCAAA 108

## (2) INFORMATION FOR SEQ ID NO: 6010:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 335
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07132

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6010:

GATCTAAAC TATTTTCTG TATAAATATT ATTTGCCGAA AGTTTGTTTA TATTNAGAAG 60  
TCTGACTATG ATGAATAAAT CTTAAATGCT TTGTTTAATT GAAAAACAAA AATCACCAAT 120  
ATCCAAGACA TGAAGATATC AGTTCAACAA ATACTGTAGT TANGNGACTA NCTCTCCACT 180  
TNTATGGGAA CTACATTTC CTCTTGGTTT TCAGGATATA GCAGCACTTC ACCGAGATAT 240  
TCTTTCAGCC ATANCACTGG TAACATTCT NCTNAATCTN TCTGTAGCAC TTANAGGANT 300  
TCCCTCATTC GNTNCCTTTC AGTGTTNNCG GGNGN 335

## (2) INFORMATION FOR SEQ ID NO: 6011:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 112
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07133

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6011:

GATCCAAAGT AGCTGGGATT ACAGNCATGA TACCACANCA CAGTCATTTG AATNTATCAT 60  
 TACTTAGTAC TCNTATTTTT TTCCCTGCTG CTCTTTATGC ANTGAAGTCC TN 112

## (2) INFORMATION FOR SEQ ID NO: 6012:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 279  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07134

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6012:

GATCTCCTTT TGATTAATTT ATAGAGTTTT TGATTATATG TCTTTGTATG ANCTTTTTAG 60  
 TTATTGCTCA AATATCACAT TTNATATTTA TAACACAGGC TACTGATGTT GACATTTTAA 120  
 CAGTTCAAGT GAAGTGTAGA AATCTTACCC ATTATCCCTC CCTATTAATN NNNTANTGGT 180  
 CTTAAATGTC TTTCCCTACA TATATTTNTA ACANGTATAT GAGATAGCCT TACAGTTTTG 240  
 NCTTTAACTA TCAATCATGC ATTAGGNNAC TCAAGNGGN 279

## (2) INFORMATION FOR SEQ ID NO: 6013:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 119  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07135

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6013:

GATCTGGGAC TGGCAGGTTA TTAATCGAGA TACACTTGTT AGGAGGGACA GGGTTCCCCT 60  
 AAGGCACTTT TAAAGATACT CTGTAAGAAC CATTAAACAAT AAACCTACTG TCAATCAAA 119

## (2) INFORMATION FOR SEQ ID NO: 6014:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 315  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07136

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6014:

GATCGAGGTT GTTTGCAACG ACCGTCTGGG GAAGAAGGTC CGCGTTAAAT GCAACACGGA 60  
 TGATACCATC GGGGACCTTA AGAAGCTGAT TGCAGCCCAA ACTGGTACCC GTTGGAACAA 120  
 GATTGTCCTG AAGAAGTGGT ACACGATTTT TGGGGACCAC GTGTCTCTGG GGGACTATGA 180  
 AATCCACGAT GGGATGAACC TGGAGCTTTA TTATCAATAG ATGAGAATGC TCATCTTCCT 240  
 GNTGNGGGNT TTNCTNTTCG NTNCTGGATN CNCCACACTG GGGNTAGATG CTTGNTTGTA 300  
 AANNCTTNC CTTTN 315

## (2) INFORMATION FOR SEQ ID NO: 6015:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 218
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07137

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6015:

```
GATCCTAAGT AGAACCAGGT AATTGTCTCT TTTTCTAATA AGGAATTTGG GTAATTTTNA 60
ATTTTTNGTT TTTTAAAAAA TAACCTAGAC TATGCAAAAC ATCAAAGTGA ATTTCCCATG 120
ANTGTTTTTA ATATTCTCAT CTCAACATTG TGATATATGC TACTAAAANC CTTTNCATAT 180
ACATCTNACC TCATTTCAGG TGANTNATTN TAATCTNN 218
```

## (2) INFORMATION FOR SEQ ID NO: 6016:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 53
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07138

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6016:

```
GATCAGAGCA GAACTAAATN AAATTAGAAT AAAGTTAAAC AATTAAAAAG AAA 53
```

## (2) INFORMATION FOR SEQ ID NO: 6017:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 231
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07139

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6017:

```
GATCGACTTA TACCTATGCT AAAGTTAACG GTCTGAGAAG GTAGATTAGT GGTTGCCTAG 60
GGCTAGGGAG TGGGTTTGGG GGTGGGGAAT AGAAAGTGAC TGGTCATGGT TATAGGCTTT 120
TTTGTAGCAC CATAAAGATA GTTTAAAATT AGATTGTGGT GGTGATTGCA CCACCCTATG 180
ATTTGCATGG TATGTGANTT ATATCTTAAT AAAGCTGTTT AANANGTCAA A 231
```

## (2) INFORMATION FOR SEQ ID NO: 6018:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 380
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07140



## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6018:

GATCCGCTCC TAACCTGCGA CCGCAGCTGA CCTTCTCCTG CCACTAGCCC GNCCCTGNCC 60  
 TTAACANACG GGATGAAGTT TCCTTTTCTG TCGCGGCGC TGTTTCCATA GGCAGAGCGG 120  
 GTGTNAGACT GAGGATTTTCG CTTCCCCTCC AAGACGCTGG GGGTCTTGGC TGCTGCCTTA 180  
 CTTNCNNGGG GCTCCTGCTG ACTTCGGAGG GCGGATGCA GAGCCCAGGG NCCCCACCGG 240  
 AAGATGTGTA CAGCTGGTCT TTAATCCATC GGCAGGGCCC GAGCCCAGGG ACCAGTGACT 300  
 TNGGCCTGGA CCTNCCGGTC TAACTGCAAG CATCTTCCCC AGGGCAAAGG NTTTNTGGGG 360  
 GAACGNGAGG TTTNATNTTN 380

## (2) INFORMATION FOR SEQ ID NO: 6019:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 107  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07141

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6019:

GATCTATTTT GTGTGTTTTG AAACCTAGGT GCAATNTCCC CTGGAAAAAG CTAAAGAAAT 60  
 GTATATGTTC AATNACATTT TAAAATAAAA TATTATATAT ATGTAAA 107

## (2) INFORMATION FOR SEQ ID NO: 6020:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 52  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07142

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6020:

GATCGATTTG ATAAATTAA ACAAAGTGCT TTTAATGGAA AAAAAAAGA AA 52

## (2) INFORMATION FOR SEQ ID NO: 6021:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 355  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07143

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6021:

GATCCACTGT AATAGTCCAG TTTGGGGTGC AGACAAGTGT GAAGAACTTC TGGAAAAGAC 60  
 AGTGAAAAAC TGCTTGCCCC TGGCTGTTGA TAAGAAGCTG AAATCCATTG CATTTCCATC 120  
 CATCGGCAGC GGCAGGAACG GTTTTCCAAA GCAGACAGCA GCTCAGCTGA TTCTGAAGGC 180  
 CATCTCCAGT TACTTCGTGT CTACAATGTC CTCTTCNTC AAAACGGTGT ACTTCGTGCT 240  
 TTTNGACAGC GAGAGTATAG GCATCTNTGT GCAGGANATG GCCAAGCTGN GCGCCGGNNN 300

NGGCTNGNGC AATGNCAGGA CCNGNTTGCA CCATGGTACC GNACCTTNAG TTTNN 355

(2) INFORMATION FOR SEQ ID NO: 6022:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 122
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07144

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6022:

GATCTTGAG CTNCTGGAGA AGCAGGNTG CNAGCTGCTC AACCGNTTCC AGGACTAGCC 60  
 CCCGCAGGCT CGTGCGCCAC CCCGTCCTGG TGAATAACG CACTCCCTGT GCCTCAGACA 120  
 AA 122

(2) INFORMATION FOR SEQ ID NO: 6023:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 162
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07145

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6023:

GATCCGATAA TGTACCATGT GCCTGCTGGT TTGGCCTGTG CTGTTTCTGC TTTTGGCCCC 60  
 TNACTTCCTG TGCTAGAGAA AGCCTTATTG GTGTTGGTGG TGGTGATGGG AGGGAAAAGG 120  
 GTGGTCCTTT GGGACTCTTG ATAAAAATNT TATCATTTGA AA 162

(2) INFORMATION FOR SEQ ID NO: 6024:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 179
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07146

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6024:

GATCCAGGCC AATGCATGGC TATTGCTGTA AATCTTGATG TTTATTTCTG CCTTGTAAG 60  
 TTCTATCACG GCCTACCTGG AATTTAAAT TCAGTAGACA AATTAATTGG TCCTCTGCAC 120  
 AACTTTTTTA ATAAGTAGAT TATTTTNCAA NGGGNTTNGA NCAANTTTNA TTGANTCTN 179

(2) INFORMATION FOR SEQ ID NO: 6025:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 403
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07147

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6025:

```
GATCAGAGTG GCTGGAGCAG AGTGAATNAG GAGGGAAGCT GAGTAGCAGG TATCTGAGAA 60
GCAATGCAGC CCGCAGCTTA ACTTCAACAT GCTTTTAAAC TTTTNNCCCA TTCTNTTGAG 120
TTTCAAGATA TAACCTTGAG GAAACTCAAA ATCCTTTCTC CTTAGCCTTA AAATAGACTC 180
CACGTCCCTC CCCTTTNTCA CCAGATATGC TCCCTTTNCA TTTATCTAAC TGTATGCTAC 240
TATTTAATTG TGTGATGTCT TAGANGTTTC AGTGGCTAAT CTTGAGACAG ACCAAGNCTG 300
GAGACCCAGC TGGCAANCCT TCCANNATTT ANCTTCAAAA TTGGCTAATT NANCAACCNG 360
GCCCTTNGTT NNAAATTATG GTNATTCCGG GGGNCCCGGN TGN 403
```

(2) INFORMATION FOR SEQ ID NO: 6026:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 198  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07150

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6026:

```
GATCTTGCTG CAGCCACAGT GCAGTCCACA TTAAGTCTAC AGACCAAACC ATTTGTATCT 60
GGCATCACTT ACTAACACAC GACATGCAGA AAAGCCGCAT GTNGTGTGTT AGTATACANG 120
AAGGAATAGA AAAGTATAC TGTTTTAAAT ANTCTGTAAT TTCAATTTTT TTNTTTTTNN 180
GCTGAANTGG GTCNTNTN 198
```

(2) INFORMATION FOR SEQ ID NO: 6027:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 190  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07151

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6027:

```
GATCATAACT CTTTNTTGAA CTAGAGTATT TTTGCAGCAT TCCTTGTCAT CAGAAACATG 60
GTTAAAGTTT AAAAGTAGAA GCAGCAGAAA ACTAGCTTGT AAAATTTATC CAAGTAGAGT 120
GCAGGCTAGG CTGTCTTGGG GAAATAAACA TTAAANCTTA AAGCAATGTT TTACATGGAA 180
ANNNNANNNN 190
```

(2) INFORMATION FOR SEQ ID NO: 6028:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 217  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07152

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6028:

GATCTTGTGN CATTNTTGAC CTTGGACCTG CTTGGTTAAG GAGGGAGTGG GCCAAACCAG 60  
 AGTGCCAGGA GCTAATGGAG CCAGGCCTGA CTCCTAGGAG TGGTCCAAAG GCCTTCAGCC 120  
 TAGATGGTGC AAAGNTGGGG CCAGCCTGTT TTCACCGGNA CCNGNGCCTG TGACACCAAG 180  
 ACCCACCCCA ATCCCAGNNT TNACACAGTA TTNTCCN 217

## (2) INFORMATION FOR SEQ ID NO: 6029:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 136  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07153

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6029:

GATCGGAGCC TACTTCCCTC CGCTCAGCCT NGAGGAGCTG AGNCCCTACT TCAGGGACCG 60  
 TGGGTGGCCT CTGCCCGGGC CCCTCTAGAC GTGCACCAGA AATAAAGGCG AAGACCCAGC 120  
 CCCTCGGCGG CTCAA 136

## (2) INFORMATION FOR SEQ ID NO: 6030:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 278  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07154

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6030:

GATCCAAACC CAAGTCTTGA GCAATGTTTT TCTCAAAAAG CTGCTATCCA ATNATATAGG 60  
 AAAATACATT GTGTTTTCTT AAACACACTT TTCTTTTTAA ATGTGCTTCA TTGTTTGATT 120  
 TGGTCCTGCC TAAATTTTAC AGGCTAGGNC AATGAAGGCT GAATCANNGN CANTTCATCC 180  
 ACCAATATCA TGTGTAGATA TTATGTATAG AAAGTANAGT AANTTATGGC TCTAACTTCT 240  
 GTGTTGCTGT NTATCCTTGN TTTTTNTCGG GGGTGNTN 278

## (2) INFORMATION FOR SEQ ID NO: 6031:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 65  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07156

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6031:

GATCAGTTGA TGTACACTTG TATTATTAAA GCACTCAATA AATCACTGTG GCTGATAACT 60  
 GCAAA 65

## (2) INFORMATION FOR SEQ ID NO: 6032:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 161  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07157  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6032:  
 GATCCACATG GCACGGTGAC TGTAGTTAAT GCATTTTATA TGTCAAAATT CCTTANATAG 60  
 TAGATTTTAA ATAATCTCAC CACAAAAAG TAGATGTGTT GGTGATGGAT ATCTTANTTN 120  
 GCTTAANGTA NTTGTNTCAC CAATGTATAC ATNTATCAGN N 161

(2) INFORMATION FOR SEQ ID NO: 6033:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 130  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07158  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6033:  
 GATCATCTTT ACAGTTCCTC GGGAAATNT GAATGTCCTG CGTTTTGTTT TCTTTACTGT 60  
 ATGAAAACAG GAAAATAAAA GAGAAATTTA GAAAATACAG CTCATTACAA TAAANNTNTT 120  
 GGNTTTCAAA 130

(2) INFORMATION FOR SEQ ID NO: 6034:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 165  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07160  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6034:  
 GATCTGGCCC AAGCTGGGCT CCCTNNAAGC CAAGAGAGCC TCTNATNGAC CCCGCCTGCC 60  
 CGAATGAAAT CCGAACAGTT GGGGCTGTTC ATGGCAAGTG GGGCTGGTTT TTCATNTCCA 120  
 TTGGTTATTT AAAGTTTCCN TTAAAATAAA CGATTTTAAG TTAAA 165

(2) INFORMATION FOR SEQ ID NO: 6035:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 77  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07161  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6035:

GATCTGGGGT CTGTTTTGTT CATTACTTTG TTCACTCCTT CTTCCATTTA TTCATTCAAT 60  
 AAACATTTAT TGGGAAA 77

(2) INFORMATION FOR SEQ ID NO: 6036:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 310
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07162

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6036:

GATCCGGCTT GCCCAGAAAG AGAAGACAGC CATGGAAGTG GAAGCCCCTT CAAAGCCAGC 60  
 CAGGACTAGT GAACCACAGC TCAAAAGGCA AAAGAAGACA AAAGCCCCCC AGGATGTAGA 120  
 AATGAAGGAC CTTGAAGATG AGAGCTAAAC CTCTTCCACT AGAAGATTCT CAACTGGAGC 180  
 CAGCCTTCNG GCTCAGTGGT TGTTTCAGAG GACTTTGACA AAAGCAAGGC CCCTTTTCAC 240  
 TCTCCAGATT TCCTCCTACC TAATGGCCTA CTGACCTCCC CTTAGAGGGA TGTNTTTGGG 300  
 NGGGAAGNTN 310

(2) INFORMATION FOR SEQ ID NO: 6037:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 288
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07163

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6037:

GATCCAGAAC ACTTCAAGAA CTCGTCAAAC AGCTCGATAA GCCTTTTTGA CTGTNTACAT 60  
 CTGTACCGGG AATAACATTC CTAGGCTGAA ATTTCCACAA AGANTAGAAC CTGTACCCAG 120  
 TTCTTCAGGC TGATTTCCCT GACCTCTTGG GCATTTGTAT TTGTAGTAAA GTATTGCAGA 180  
 GATTCCTAAG TATTTTTTNA GCAGCCATNA AAAATTGGNC TTTGTNTTNG TTGATTCATN 240  
 NGGAGGGCAA GTTGGGGANT AGACTTCAGT NGANCTCGGT ATGGNTGN 288

(2) INFORMATION FOR SEQ ID NO: 6038:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 51
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07164

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6038:

GATCAGCCA CTGCACTCCA GCCTGGGCAC CAGAGTGAGA CACTGTTTAA A 51

(2) INFORMATION FOR SEQ ID NO: 6039:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 195

(B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07165  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6039:  
 GATCTGGGCA GGGAACATCA CATAACAGGG CTGTCTGTCG GGGGGGTGGA GGGCTGGGGG 60  
 AGGGATAGCA TTAGGGGAAA TACCTAATGT AAATNACAAG TTGATGGGTG CAGCAAACCA 120  
 ACATGGCACA TGTATACCTA TGTAACAAAT CTGCATGTTG TGCACGTGTA CCCTAGAACT 180  
 TAAAGTATAA TTAAA . 195

(2) INFORMATION FOR SEQ ID NO: 6040:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 75  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07166  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6040:  
 GATCAGGCCC CACCTTGTGT CTACCCCAT CCCNGCTGTG AACGTGACAN TGAATAAAGT 60  
 CGGGGAAACG CGAAA 75

(2) INFORMATION FOR SEQ ID NO: 6041:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 315  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07167  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6041:  
 GATCTGAATT GAGGAACTTG TAGTTTTTGC TCTCCCACTT CTTGGAAACC CCTATCTACT 60  
 TTCCTATGTA TTTGACTACT TGAGGTAGCT TATACAAGTA GAATCATACA AATGTATTGT 120  
 TTTGTGACTA GCTTACTTCA NTTACAATAA GTCCTCAAGT TCTNCCATGT TGCTGTGTGT 180  
 GTCAAAATTN CCTTCCTNGC TAAGGCTGAA TAATATTNCA TNGTATATAT ATGNCNTTNA 240  
 TCCAGTCATT CATCAATGAN TACNTGTTTT TNGTGTGTGG TGTTGGAANC CTNCTGGGGA 300  
 CATGGTNATA TTTTN 315

(2) INFORMATION FOR SEQ ID NO: 6042:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 79  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07169  
 (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6042:

GATCTAAGCT GATTTAAATC TAAAAACTGG ATAAGAAGCT GTGGCTTGTA ATTAAAAATA 60  
GACCTTTATT CACTAGAAA 79

(2) INFORMATION FOR SEQ ID NO: 6043:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 189  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07170

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6043:

GATCAGGTAT TTAAAGGACA TCTGACAGTG CCTGGCACGG GATAGGTGCT CCATAAATGC 60  
CTGTAGCTAT AATTATTACT GTNCCACTAG CTGTTTACTT AAGTAACATT GAATTTCCAC 120  
AGANTGCATT TCGAATCAGG TGGACTATGA TTATACTGAT TNTNAAAATA GNGAGCTGCA 180  
TCTGTTAAA 189

(2) INFORMATION FOR SEQ ID NO: 6044:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 151  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07171

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6044:

GATCTGGAGT GGAAGGGGAA TTCATTTGTT CATTGTCTAT CCTTTTGTAT TGATTGAATT 60  
TTTNATATAT ATATGTAAAT TTNCACAATA AAATTTTTTN CCAAATAAAA ATAAACAAAA 120  
GGGGCTTTTT GCAACCCAAT TCCTATCTAA A 151

(2) INFORMATION FOR SEQ ID NO: 6045:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 178  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07173

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6045:

GATCATAGCA CTNTATCATC TTAAAAGTTA ATAATAGATT ACTTGTAACA CAGGCTCACT 60  
ATGNGAGAAT TCATCAAGCT GTATGTACAT TTATTGTGCT CTTCAATTGTA TGTATAANTC 120  
AATAAATTGA AACAGTAAAC GAAAAGGTAA TTNTAGANAN CCTACAGTGA TNCTTGNN 178

(2) INFORMATION FOR SEQ ID NO: 6046:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 380



(B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07174  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6046:  
 GATCCGTCAC AGACTAAGGA GATGGCAGGC ATTGACAGCT TCACTCCATG AAGGCCATCT 60  
 CTGTTTCTNT CCTCCGCTTA ACCAAGCTGT TGTGGTTTTT NAGCATAGTG TTGTATGTTC 120  
 CATTGCTAGC TGTCTGCTG TTTAACACAG TGTGTATTT TTTNCTAAA TGTACATAAT 180  
 TAGAAAAGAA GATAACAATA GGANGCTATG TGTATCTCCT GTGTAAAGNA GTGGCTTCAC 240  
 TGGAAAATG GTGTGGCTAG CATTTCCTT TGAGTCATGA TGACAGATGG TGTGAAAACC 300  
 ATCTAAGTTT GCTTTTGACC ATCACCTCCC AGTAGCAATT NTGCTTTCAT AATCCNTTTT 360  
 AGCANTCCAG GCCTCTTTGN 380

(2) INFORMATION FOR SEQ ID NO: 6047:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 72  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07175  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6047:  
 GATCGTAATG TAAATTCTT TTACCATGTC AAGAAATTAT TAAAAATACA GGTACTTTGA 60  
 CCTCTTTCTA AA 72

(2) INFORMATION FOR SEQ ID NO: 6048:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 226  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07178  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6048:  
 GATCCTGAAA AGATAGGGCT ATTGTCCCCT GCCTCCTTGG TCACTGCCTC TNGCTGCACG 60  
 GNCTCCTNAG CCCACCCCT TGGGGCACAA CCTGCCACTG CCACAGTAGC TCAACCAAGC 120  
 AGTTGTGCTG AGAATGGCAC CTGGNGAGAG CCTTCTGTGT GCCAGNTTTT GTTCTGAGTG 180  
 CTGTACATGT ATTANNTCCT NTACTGCTNG CCACATTGTA CCNNTN 226

(2) INFORMATION FOR SEQ ID NO: 6049:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 225  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07179

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6049:

```

GATCCCCGTA CCACAGTGCC AGCCATGCCC TTCCCCTGGG CTACCATTGT CCCTTTCCTC 60
ACCCAGTTGG TAGAGGAGTC AGGAGGTGGG AGGCCGTGGG CTTTGTTT ATAATGTAAC 120
CACTGTGGGG GTGGGGGAGG ATGGTGAACC ATGTATTTNA GTGAAATATT TAATATATTT 180
AANTATCANT AAANTCAAAC TCTTTGTAAA ANANANNAG NANGN 225

```

## (2) INFORMATION FOR SEQ ID NO: 6050:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 332
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07180

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6050:

```

GATCATCCTG GGCAGCAAAG TCATACACTC TTGAGGGAAG AGAGAGACCT TCTCATATTG 60
TTTTATATTG TTTTATACTC AGTACCTGTT TTAAGAAAAA AACAAGGAAG TGAAATCAAA 120
GACAGGCAGC CCGGCACCAG GCCTGANACC AGCCCTGGGC CTGCNTGGCC TAAACCTAGT 180
AGTTAAAATT CAACTTACGA CTTAGANCCT GATGTTATCC GTAGATTCCA AGCNTTGTAT 240
AAAANATTTG TGANACTCCC TGTTGTGTTT TGTGCCAGTG CATGNNACCC CTGTCACATA 300
TCCCCTAGAT TGCTCANTCA NTCNCGGTTT GN 332

```

## (2) INFORMATION FOR SEQ ID NO: 6051:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 259
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07181

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6051:

```

GATCACAGGC CTTTGGAGCA CTTTACTCT CTGAGAAGAA CTGGAGCTAG AGATGTAAAA 60
TGGACAGTCT TGATGGGGTT GAGAACCTTC TGGGGAGCCA GATGACCCTC TCTTTGCACA 120
ATAGATAAAA GTCTTTATAT GANTATATAT AANTTTNTTT NTTTTTCCCT TCCTGTGGGA 180
TTTCTGGAGA ATGAGAATTA TCCAAATNCT CAGTCTACCT GNGATAGTAA ATNCATGGCT 240
TATGCTTCTG GTCCTTAAA 259

```

## (2) INFORMATION FOR SEQ ID NO: 6052:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 92
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07182

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6052:

GATCGNACCA CTGCACTCCA GCCTGGAAGA CCAAACGAGA CTCTGTATCA AAAAATAATA 60  
 ATAATTAATA AAGTTTACT GGAAAAAAGA AA 92

(2) INFORMATION FOR SEQ ID NO: 6053:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 92  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07183

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6053:

GATCAGCTAC AATGCCCTGT GTTAAATTNT TTAAAGTTT CCCTTTTCTT TTTTGCCAAT 60  
 AAAGTTGTAA ATAAAGACCA TCATACATTA AA 92

(2) INFORMATION FOR SEQ ID NO: 6054:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 95  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07185

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6054:

GATCCCTTCC CGCCACACGA TGCTCCGTTT TCTTCCGTTG TGAATNCCGC GTCCTGTCCT 60  
 GGTGACAGGA GAACAATNTT GGTGAACGTC GCAA 95

(2) INFORMATION FOR SEQ ID NO: 6055:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 155  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07186

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6055:

GATCTCCTTC TCACTGCATT CACTCGGTTT CCATAGCCCA AGTCATATTG TNTCTCTCCT 60  
 GGACAGTAAT AACCTTTTNT TGGGCTCCCT GCTTCCAACC TTGCCTTCTG TAGTGACTT 120  
 TCCAAATAGA AGCCAGAGTG ATACCTTATA TTAA 155

(2) INFORMATION FOR SEQ ID NO: 6056:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 138  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07187

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6056:

GATCAGGAGG CCCACTTGGA TTTATAGTAT AGCCCTTCCT CCACTCCCAC CAGACTTGCT 60  
 CATTTCCTCGA GTTTTAACT AGACTACACT CTATTGAGTT TAATTTNTC CTCTAGGATT 120  
 TATTTCTGTT GTCCTAAA 138

## (2) INFORMATION FOR SEQ ID NO: 6057:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 158  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07188

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6057:

GATCTGAAAA CCAAGTGGTG ACCTAGGGAG GGAACAAGCN CTGTGCAGCA TTGATGAAAC 60  
 TTAAAAGATG AAGTCCTGGT CCGGGCACGG TGGCTCACTT CTNTAATTCC AACACTTTGG 120  
 GAGGCCGAGG CAGGAAGATG GCTTCANCCC ACGACAAA 158

## (2) INFORMATION FOR SEQ ID NO: 6058:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 151  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07192

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6058:

GATCTNTGGC CCACTCCGCA TAAATCAGGT GCATAATGTA GCTGCCCGGG CTTCTATACT 60  
 GCAACATTCG CAAGGCAATT AGCTTGAAAA CTGAATTGAT GTACATTGAT TTTTAAATA 120  
 AAGTTATTGT AATATATTCA CTCGTTATAA A 151

## (2) INFORMATION FOR SEQ ID NO: 6059:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 362  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07193

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6059:

GATCTATACC CTAAGCAGAT AGCAAAGAAG ATAATGGAGG AGCAATTGGT CATGGCCTTG 60  
 GTTTCCTCA AAACAACGCT GCAGATTNT CTGCACAAAC ATCTCCACTT TTGGGGGAAA 120  
 GGTGGGTNGA TTCCAGTTCC CTGGACTACC TTCAGGAGGC ACGAGAGCTG GGAGAAGAGG 180  
 CAAAGCTACA GGTTTACTTG GGAGCCAGCT GAGAAGAGAG CAGACTCACA GGTGCTGGTN 240  
 CTTGGTTTTN GCCAGGCTCC TCCGAGCACC TCATGCATGT CCCAGCCCCT GGGCCCTAGC 300  
 CCTTTCNNGN CCTNCNGTCT NCAGTGCCAG NACGGAANTN CCTTGNACCA NNGGNTNTTN 360

GN

362

## (2) INFORMATION FOR SEQ ID NO: 6060:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 149
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07194

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6060:

```
GATCCATCAT NATGTAAAN TTCACAATAT GGTTCAAATG TAACANTGCA GAATTGAATA 60
TGGAGGCATG CATAACCTTC CTCTTAGAAA ATGGCAGGTN TTGTAATTTC AAATTTTNT 120
GCAATTAGAT TAANTCATAA TGCAACAAA 149
```

## (2) INFORMATION FOR SEQ ID NO: 6061:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 184
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07195

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6061:

```
GATCTTGCTT TAACTTTCAA CACTTAGAAA ATCTACAAAC ATTCAGACCT GTCTGGGTTG 60
GTATTGCCAC CCATGACATT TAACATGTTG TGATGCTTGA AAACACAGGA GTAGAGAAAN 120
TCGATGANGA TTGTATTTTN NCACCTTAAC TCCACATTGC TTTATTGGNT AATTNATANN 180
CTNN 184
```

## (2) INFORMATION FOR SEQ ID NO: 6062:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 196
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07196

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6062:

```
GATCAGTAGT CTCTATTCAA ACTTTNAAAA TGTCGTGGTA TTGTAACAAT ATATTTAATG 60
AAAGANGGTT ACAGACTCCC CTGAAGAACC AGCTTTCCTA CGCTTTTNAT TTNCTAACT 120
TGTCTAACCT GATTTNAAAA TGACTGCANT TCCAGACTAA AAACATGCTT CANCCCTGTT 180
TCANGACATT NTGCTN 196
```

## (2) INFORMATION FOR SEQ ID NO: 6063:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 295
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single

(D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07199  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6063:  
 GATCCAAACT CTACATCCAG AGATTATGAA AAATTCTTAT AGAATTTTGT AACAAAGTATT 60  
 TACATGTTGG GTGAAAGANA TTTCATAGTC GTTGGAGTGC CATGAAATTA ATACTTGCAA 120  
 TTCAGATTGC GGTAGTTTAC ACTTTTCCTG TATGTTTCAA ATCAGGTGTG TACCATTTGT 180  
 NCTGAGANCA CCACAGANTG ATTTATCCAA AGTCCATTGA TTTTNATACG TGTTTTGGTT 240  
 TGTNACCAAN TTATNGTNAT TCNTNGCACA TTTTGGNAA TTNATTGTAT AGGNN 295

(2) INFORMATION FOR SEQ ID NO: 6064:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 312  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07200  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6064:  
 GATCTTCGCT GATTNNNTCC ATCAATNACC CGGAGCATCC ACTNACGCTA GAGGAGTTGA 60  
 ACGTAGTAGA GCAGGTGCGG GTTCAGGTTA GCGACCCCGA GAGTACAGTG GCTGTGGCTT 120  
 TCACACCAAC CATTCCGCAC TGCAGCATGG CCACCCTTAT TGGTCTGTCC ATCAAGGTCA 180  
 AGCTTCTGCG CTCCCTTCCT CAGCGTTNNN NNGATGGACG TGCACATTAC TCCGGGGACC 240  
 CATGCCTCAG AGCATGCAGT GAACAAGCAN CTTTGCAGNT AAGGNGCGGG TGGCAGCTGC 300  
 CCTNGNGAGC AN 312

(2) INFORMATION FOR SEQ ID NO: 6065:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 108  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07201  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6065:  
 GATCAGTGCT CTTCAAGGTG TCAAGATTAT CAAAGACATA AAAGANTGGN TGANCTGCCA 60  
 TAGATTGGNG GAGACAATGC AATGTGAAAT CCTGANTTTG ACCCTGAN 108

(2) INFORMATION FOR SEQ ID NO: 6066:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 103  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07202  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6066:  
 GATCTTTAGT CCGAGTATGN GAAATTCAAG CAACTTTGCG AGANAAAGGA ATACTATTTT 60  
 TNAGNCAACA AATTAAGGAA CTTGAAAAGC TAAAAANTCA GAN 103

(2) INFORMATION FOR SEQ ID NO: 6067:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 127  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07204

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6067:  
 GATCANNGAA ACTAAACATT ACACCTTCTG GNCTTTNATT TATGAAGTGG CACAGAATCT 60  
 AACTTTNCAC TGAATATCTT TCCATTCACT TCTCCTCTGC CTTAGTCACA ATGGCAACAG 120  
 TACAGNN 127

(2) INFORMATION FOR SEQ ID NO: 6068:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 136  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07206

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6068:  
 GATCTCCCAA GNAAGCACAA ATAGTTTTTT TCGCTAACTT AGTTATGAGT GAAGCCTCTG 60  
 TNCACCTATA ACTNGCCAGT TTCATTGGTG GAATAAGTCC CCTTACTCAT GATTCANCA 120  
 TATNCCTATA TTANAN 136

(2) INFORMATION FOR SEQ ID NO: 6069:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 108  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07209

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6069:  
 GATCAGAGAA GGTTTTGTGTT GTCCTTTTAA TCTTTACTTC TTTGAATTGT GAAAGTAATA 60  
 CTACATATTC ATAATAAATT CAAATAATAC AGAAGTATAT TATGTAAA 108

(2) INFORMATION FOR SEQ ID NO: 6070:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 120  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07210  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6070:  
 GATCCGTGCT GTCCAATCCG GTAGCCACAC ACGGCTCTCG GGCACCGCAC AGTGGCTAGT 60  
 CTGAAACCTG ACATGCTCTA AGTGTAATAA ACATGGTGGA TTTTNAAGAC TTGAACCAAA 120

(2) INFORMATION FOR SEQ ID NO: 6071:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 174  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07211  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6071:  
 GATCCTGGCC CTCCACCTNC CTCCAGGCCA CGAAATGGGA ATNCCAGCAC TAAGCCAGGC 60  
 ACCGGGCAGA AGCTGGGGCCT TCCGCCTCCN TTGGATGGGG TCAAGAGGCC ANGCCTGGNA 120  
 CATTTTGGNG TGTCTGGCT ACCAGCTCTC ACCTACANCC ACGCACCTCT NTAN 174

(2) INFORMATION FOR SEQ ID NO: 6072:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 186  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07212  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6072:  
 GATCTAGATA TNAGGTTTTT CTCCTTCATT CTCAGCTGTC GAAGAAATCA AAGTAGCATA 60  
 TGCACAAGGT TAAAAACCAC ATATACAAAT ACTATAGAAC AGCTTATANT GAAAACCTTG 120  
 CCTGCCTTTA TANAANNTGT GATTATCTTC TTCTGTTAAT GTCAGTAANN GATGGTTTGT 180  
 CCTAAA 186

(2) INFORMATION FOR SEQ ID NO: 6073:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 229  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07213  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6073:  
 GATCTGAGAG ATGATACATG ATACCAGATG AAAAGAAGGA GAAGTGTGTA CCATATGTTT 60  
 TNAGCAGAGG NCCCTCCAAC TTATGGCATC AGGGGCAAAA AGTCACAGCT TATCCCAGGC 120  
 ACCCTGGCAG GTTCTCAGAG CCTGCCCTCT CCCTGTTTAT ATGCGTACAG CCTGGTAACC 180  
 CCCAGGCATG CAANTATACA GTCTGTAACA ACAGGNNTT NNTNNNTTN 229



## (2) INFORMATION FOR SEQ ID NO: 6074:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 50
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07214

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6074:

GATCTTAAAA CTGAATAAAA ATATTTAATA AAACCTTTGAA ATATTTTAAA

50

## (2) INFORMATION FOR SEQ ID NO: 6075:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 297
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07215

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6075:

GATCCATTCT ATCCATCCGT TATGTGGCTT TGCCATCCCA GCTTGGAGTG TCTTTACAAA 60  
 GATAATAACA GTTGTTTTCT TTGCTCTCGT TTTGGATGCA TAGACTGAAA AATTAAAAACA 120  
 AATAACTTGT AAAATGGCTT GTNAAAAAAT ACAATTACCT CTAATTAGTA GTACGCGTAA 180  
 NTNTTTTACA GAATGANAGG CGTGCTTTNN ATTTCTTAC TGC GTTACAT TGGTGGCGAA 240  
 AGANGTCTGT ATGANANTCA GTNCTTNTGC TGACACAAGN TCCATTGGT NACANAN 297

## (2) INFORMATION FOR SEQ ID NO: 6076:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 191
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07216

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6076:

GATCCTCAAT CAGTGGGTGG AGGATAACAG GGTAGATTCA CTTGTTTGCA CTTNTACAGT 60  
 TGTAGCTGCG AGTCCAGAAG TCCTCTAGAG CATGTTTACT GGCAGT GAGT TGGTGAGACA 120  
 GTTGTGGAGT ATCCATTCT GATGAGTACA GAAAAAAGAA NGANGAGAAA 180  
 AANTTANGAA A 191

## (2) INFORMATION FOR SEQ ID NO: 6077:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 235
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07217

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6077:

```
GATCCGAGCG TCGTGAAGTC ACCTGAAGTT TGGAAGGTTG GCACTGGGGG GCCGCATCCC 60
CCTGGGAAAT NACTGAACGC GGGGTTTCAN TGGGTCCCGC CTGGGTCTAA GGACCCAGTT 120
TCTTCTGTNA GCACGGGCAG TGGGAGGCCG GTGGAAAGGC GCAGGGGCCC ACCTACGCGT 180
CTCACATCTT CAGGGGCGCA TTTCTACAAT AAAAATCAC CCAATTAGAC CTAAA 235
```

(2) INFORMATION FOR SEQ ID NO: 6078:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 181  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07218

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6078:

```
GATCTATTGG ACCAAACCTT CTGCACACTC GGCCAGTTCC CTCTCCAATG TCCGGTGCCA 60
TCTTTCCTGA CCTTTGTTTC TTTCTGTTCA GGAACCATCA GTCCCCTTGT AATAAAGGTG 120
GTAGATTTCA TTGAGGTTTT AGATTGAAAC TTTGAATAAA TCAAAAATAC TCATTCTTAA 180
A 181
```

(2) INFORMATION FOR SEQ ID NO: 6079:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 54  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07219

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6079:

```
GATCTATCAT TACAAAATNA ATTGAATAAT AAAATAGTTT GGTAGAACT TAA 54
```

(2) INFORMATION FOR SEQ ID NO: 6080:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 225  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07220

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6080:

```
GATCCAGAGT TGAAGACCCT TCAGCTGGCT CTGCCTGCCA GTGCCACANA GTGCCATGGC 60
CCAGGAAGAC AGGTTTTNTT CCATCTAGGC CAGGCCATCC AGTGGCCATC CTCCGTGTCC 120
TCCCGCCTCC TCCTGGTGTG ACTTCTGAAA ACCAAGAATT TGTTCTGTG GACTTTTTTCT 180
GTGCTATGGA CCATTGTCCT CTCACCCACT CAATAAATCT TGAAA 225
```

## (2) INFORMATION FOR SEQ ID NO: 6081:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 291
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07221

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6081:

```
GATCTCTNCT AACNNTAGTA AATAAACT AAAGTGGTGG GCTTTGATAA TGCATTTNGT 60
GGATACAAAA TCATCGNCTC ATCACTTTCT AGAATGAAAG GCTGGGAGGC ATTGCTCACC 120
TTTTGCGTGA AGAAAAGACC TGTCCCTTAG AGCCAGTTTT TNCTTAAGGG GAGGACAGAC 180
CGTCGTCACC CAGTGGACCN CGTTGGATGG NTGGATGCAG TNCATNCTTT AGAAGCACCG 240
CATACCTGCT TGTTACAGGT NCAGNGTAAG TGGTCTTNGC TNCTGTGGGA N 291
```

## (2) INFORMATION FOR SEQ ID NO: 6082:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 107
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07222

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6082:

```
GATCTNCCCT AGCCCTCTNT TCCAGAAGAT GCCCTCCAAT CCTTTCCACC CNATTCCCTA 60
ACTNTNGGGA CCTCGTTTGG AAGTTTTCTG TGGGCTTGGC CTTGGTN 107
```

## (2) INFORMATION FOR SEQ ID NO: 6083:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 173
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07223

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6083:

```
GATCTAGTTT TCCAAGTAAC ATTTTGTGGT GACAGAAGCC TAAAAAAAAG CTAAATCAG 60
GAAAGAAAAG GAAAAATACG ANT'TGAAAAT TAAGGAAATG TTAGTAAANT AGATGAGTGT 120
TAANCTAGAT TGTNTTCATT NCTAGATAAN NTGTATAACG CTCTCTGTNC TAN 173
```

## (2) INFORMATION FOR SEQ ID NO: 6084:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 328
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07224

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6084:

GATCACCTGC GTGTCCCATC TACAGACCTG CGGCTTCATA AAACCTNCTNA TTTCTCTTCA 60  
 GCTTTGAAAA GGGTTACCCT GGGCACTGGC CTAGAGCCTC ACCTCCTAAT AGACTTAGCC 120  
 CCATGAGTTT GCCATGTTGA GCAGGACTAT TTCTGGCACT TGCAAGTCCC ATGATTTCTT 180  
 CGGTAATTCT GAGGGTGGGG GGAGGGACAT GAAATCATCT TAGCTTAGCT TTCTGTCTGT 240  
 GAAATGTCTA TATAGTGTAT TGTGTGTTTT AACAAATGNT TTACTACTGAC TGTGCTGTA 300  
 AAAGNGAATN TGGAATAAA GTTATTTN 328

## (2) INFORMATION FOR SEQ ID NO: 6085:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 156  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07225

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6085:

GATCTCAGCT ATTTAAATAC AAACCTGAAA AAAATATTTT TCCAGGGTAC CATAAATATG 60  
 ATTAANTNNN TAAAAAATTT AGTGTCACTT GATGAAAATA TAACTAGACC AATAGTAAAA 120  
 TNCAGGTGTA TCTTANTTCC CTGANGTCCT CATTTN 156

## (2) INFORMATION FOR SEQ ID NO: 6086:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 276  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07226

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6086:

GATCCTGGGC TGCTGGTGCT ACCTGCGGCT GCAGCGCATC ANCCAGTCGG AGGACGAGGA 60  
 GAGCATCGTG GGGGATGGGG AGACCAAGGA ACCCTTCCTG CTGGTGCACT ATTCGGCCAA 120  
 GGGACCGTGC GTGGAGAGAA AGGCCAAGCT GATGACTCCC AACGGCCCGN AAGTCCACGG 180  
 CTGAGCCAGG ATTCAAGGNT CCTNGTCCTA TTTNCAGCCG GCCAANNGGC GCTNGNAGGG 240  
 GNAAANCCAT ACGGTTGCGC TNNTGTCTGA GAGGAN 276

## (2) INFORMATION FOR SEQ ID NO: 6087:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 151  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07227

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6087:

GATCTTGCCA CATCTGGCAC GGAGACGACA CAGTAATNCT GAAAAAGCCT CTATGTAGTC 60

CTGTTAGTNT CTTAAAGAAC CTAAAAGCTN GGACCAGTAA AATCCACAGA AATTCACTCT 120  
TGCCTTTAAG AACTTTTGAA AACTGTTTAA A 151

(2) INFORMATION FOR SEQ ID NO: 6088:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 373
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07228

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6088:

GATCCAATGG ATTTAAACAG AAGCNCTTTG CCAGGCTTGC CAGCAAGAAG GCAGTGGAGG 60  
AACTTGCCTA CAAATGGAGT GTTGAGGATA TGTAACCTTC CTNAGGCTGT GGGGGTGGCT 120  
GGNCTGTGGT AGTGGGCATA GGCAGCGAGA TATCCAGTGG TAACAGTTGT CTGTGCTAAT 180  
AATTGGAGCC CACACAGNCC AGCAGCTTGT TGAATGCCAG TTTTGACCAC AGAAGGTTTA 240  
TTCGAGGCCT NATGTTTGGA CTGAGGTACC TGTACTTCTT NGGGTGTTGA CAGCACC GGC 300  
TGTGCTGGN TTTCAGAGGG AGCGTTGATT TCTCNTTGAC CAGGGNTTNT TCTTTGGTTA 360  
GGGTGTTTCT TCN 373

(2) INFORMATION FOR SEQ ID NO: 6089:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 174
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07229

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6089:

GATCAGNAGA GGCCANGCTC CNCCCCACCC CAAACAGCAT GAACTTCCCA AGGCTCCATC 60  
CCTTTCTCCC AGTGACAGG CTGGTCACTT TCTCCGGGTA CCCCCTTGGG TACCTTGGCT 120  
GTCTCAGTTC TATTTAACCA TTTCCCACT TTTGAGCATT TACTCACAGT TAAA 174

(2) INFORMATION FOR SEQ ID NO: 6090:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 142
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07230

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6090:

GATCTCAGAT TTTTTTTGAA GTTAACATGC CTGACACAGA CATCCTTTCC TCTCACAAGC 60  
TGTGTGACTT AGTAGATAAA ATACTGCCTT CTGCCTTTGG GACCATGATT AAAAACAAG 120  
ACAAAAACCA AAAGTCATTA AA 142

(2) INFORMATION FOR SEQ ID NO: 6091:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 139  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07231  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6091:  
 GATCACTGGA CATCAAAGAT TCATTGCACT TATGAACAAG GAACCTTCTT TTCAATTTCT 60  
 GTGTAATTTG CAAGGCTGTA CAATGTGTGC TGATGCAAGC CTTTTTCAGT TCAAGAGAAT 120  
 AAATGTTTAC AANTATAAA 139

(2) INFORMATION FOR SEQ ID NO: 6092:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 230  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07232  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6092:  
 GATCTATAAA TCAAGAAAAT CCATTGTCAT AACCATTTTT AAAAGTCAAA AATTAAGACA 60  
 TCCTTAATTA AAANGTTTCA AATCTAGACA CTAAATGTGT GTGANTGTAC AAAGAAAACA 120  
 ANCCATTGCT TATNCTGTTA TATACTAGTG NNCCTTTTAN TTTTGCTTGC TGTTTTAAAC 180  
 TTGGACAGTT TGAGGACTTT NGTTGGANCT TCGTATTGTA NGANCTGTTN 230

(2) INFORMATION FOR SEQ ID NO: 6093:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 103  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07235  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6093:  
 GATCGAGGAC TATTCCNGTG CTATTCATTC CTCCATTGCT AAACAGATNA AAAGCGACGG 60  
 TTNCTNCACT AACAGCAGCT GGGAAAGANG TTATGCTTGT TGN 103

(2) INFORMATION FOR SEQ ID NO: 6094:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 246  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07238  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6094:

GATCCCAAGG ACCTGGAGCC ACGGGCTGCC AACTGCACTC GGGTACTGGT GTGGCATACT 60  
 CGGACAGAGA AGCCCAAGAT GAAGCAGGAG GAGCAGCTGC AGCGGCAGGG CCGGGGCTCA 120  
 GACCCAGCAA TTGAGGTGTG ATGGCGGCCC CACCCCAACT ACCACCTCTT TTCAGGCACA 180  
 GACCTTGTGG GACTGGGNCC AGGCCTNCCC AGGATTGTGG GTTTTTCCTAA AGTCCTTGAC 240  
 CNTTTN 246

(2) INFORMATION FOR SEQ ID NO: 6095:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 158
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07241

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6095:

GATCCACCAG CCTCAGCCTC CCAGAGTGCT GGGATTACAG GCGTGAATGT AATNNTTTTT 60  
 AAAAAGAAAA ACATGGNTGT AAAGAAAGTA AAGCTTCGTT TTGAACAGTT ATGATGGTAA 120  
 CACANCTCAA NGGTGCAACT AANGCAGTGC TGCANCCN 158

(2) INFORMATION FOR SEQ ID NO: 6096:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 112
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07243

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6096:

GATCTGTGAC ACTNACATGG CTGTGGTGTG CATACTGTGT AGTTACATAG CCCTTCCAAT 60  
 TCTGGGTCCA TTTGCACTAG CAAATTAAAA TATGCTTTGA TTCATACTTA AA 112

(2) INFORMATION FOR SEQ ID NO: 6097:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 81
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07244

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6097:

GATCCCAAAC NACTCACTCC TTAAATTCAC ACTTTGCCAC TTAACCTCAG TGTGGATGAC 60  
 AGAGCGAGAC CCTGCCTCAA A 81

(2) INFORMATION FOR SEQ ID NO: 6098:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 104
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single

(D) TOPOLOGY: linear  
(vii) IMMEDIATE SOURCE:  
(B) CLONE: HUMGS07245  
(ix) FEATURE:  
(D) OTHER INFORMATION: "N"=unidentified base  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6098:  
GATCAACCTC AACACCTGGC NTCTCANGCC TATATACCGA CATATNCAGC AAACCCTNAT 60  
GNAGGCTACA AAGTACGCGC AAGTACCCAC GTAAGTGACG TTAN 104

(2) INFORMATION FOR SEQ ID NO: 6099:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 54  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear  
(vii) IMMEDIATE SOURCE:  
(B) CLONE: HUMGS07246  
(ix) FEATURE:  
(D) OTHER INFORMATION: "N"=unidentified base  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6099:  
GATCTTTTCT AAATATTATT ACTTGTAAT AAAGTCTATT TTGNTCCCGT GAAA 54

(2) INFORMATION FOR SEQ ID NO: 6100:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 133  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear  
(vii) IMMEDIATE SOURCE:  
(B) CLONE: HUMGS07249  
(ix) FEATURE:  
(D) OTHER INFORMATION: "N"=unidentified base  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6100:  
GATCTAAATA TGAAAAGTAT GTCCTGCTGA ATTTTCCTGT GNATTGGTGA GCGGACAGAC 60  
TACCTGTAAA CCATGACCTC CTTGCCAAAC GTTAGTTTTA TNAGNTCACT NGTAACCTTT 120  
GAGAATNNTC TGN 133

(2) INFORMATION FOR SEQ ID NO: 6101:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 104  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear  
(vii) IMMEDIATE SOURCE:  
(B) CLONE: HUMGS07250  
(ix) FEATURE:  
(D) OTHER INFORMATION: "N"=unidentified base  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6101:  
GATCGTNCCA CTNACCTCCA GCCTGGGGGN NAGAGCAAGA CCGTGTCTCA AAAACAATTN 60  
AGTCTGAAAC ACAATTGTCC TGAATCTGTC TGAATAAAC TCTN 104

(2) INFORMATION FOR SEQ ID NO: 6102:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 126



(B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07251  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6102:  
 GATCTCAAAA AAGAAGGAAT TTCTCCTNTN TNTCTTGCAG TTAATGTAAG ANTACTTTAA 60  
 ATCTCTAANC TTCTGAAGTG TTAGAGGTAG AGATGGTCTA GTAAAGATGT GGTAGTAATG 120  
 TTTTAN 126

(2) INFORMATION FOR SEQ ID NO: 6103:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 179  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07253  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6103:  
 GATCAAGCCA TCGGAGCTGC TAGAGTTCTG TCTGGACTTT CCAGAGACCA AGTNTTCCCT 60  
 TTTGCTGCCT CAAAAGGCC TGTGCCTGCA GACATGTGAG ACAGCAGGTC TGATGGGGGT 120  
 GACAAGCTTT NTTTTTTTNN CCNAAAGAA TTNCAAATTC AATTCCAGAT TGNTTTTNN 179

(2) INFORMATION FOR SEQ ID NO: 6104:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 293  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07257  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6104:  
 GATCAAATTT CANTGGCTTT NGACAGAAAA GAAGGCTCTG GATTTAAGCG GGTGGTCACC 60  
 TGTNAGACCA GGTCTACCTT GGGACTGTNA TTTAACTGAA TCAGTTATTT CCTTGAAATT 120  
 TCACAGTAGT GGGTGGGCCT GTTTTAAGGN TCTGACAGAT ACCACGAAAC ATGAAGCACG 180  
 TGGAAGTACA AGACCCCCGG GGTCTTCTG AGTGCAAGGC TGAAATGGGN CAAGGGCTCC 240  
 TCACGGGGNG TGGAGGGNNG CCGGAGNCT TNCNTGGTTG TTNCNTTTTT TGN 293

(2) INFORMATION FOR SEQ ID NO: 6105:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 110  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07259  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6105:  
 GATCCCGTNC GCGCGCTGC CCGAGAGGAA CAATGACAGC TTTGCAGTTC TCCNGGAGTN .60  
 CGCTGAGGAG CAGCTGCAAG CCGACCANGT NTTCAATTTAC TTCCACAAGN 110

(2) INFORMATION FOR SEQ ID NO: 6106:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 183  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07261

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6106:

GATCTAGTAC TCCTTGATGA AGAATCGGGG CCTGTAAACT TACCTCCAGC ACTAAAACAT 60  
 CCTCANGANT TACTATAATG TGTCCAAAAT ATCACTGCAT ACAATATCTG NNATTTGAAG 120  
 TGAAAAACTG ACTTTNGTAT AGTATAAAAC ACAGGCTTTC ACAANTTTTG GTNTNGCTGG 180  
 NTN 183

(2) INFORMATION FOR SEQ ID NO: 6107:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 135  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07263

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6107:

GATCCTGANG ATGATGATGA TGATGATGAT GAAGAATAAA TGGAATCAAA ATGCTAGCTT 60  
 NATTTGACAT NAATAAGTAA AATAAGTCAT CATGTNTTCA ACNCTGTAGT TCAGCTGTTT 120  
 ACATTGAATA ATNTN 135

(2) INFORMATION FOR SEQ ID NO: 6108:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 173  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07264

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6108:

GATCCTTTCC AGTTTAAGCA GCCAATCAGA CCNCTTCACA TTTCTAAAAA AATGACCTAA 60  
 CTAAAGCACC AGAGCTCGGA GANTTCCAGG GAAGCCAGAT ACCGAGGCGC AAATTTTSTA 120  
 AAAAATAAGA GTCAGAAATA AAAATAAANG GTNTCTGTTG GTCAAGATTT AAA 173

(2) INFORMATION FOR SEQ ID NO: 6109:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 152  
 (B) TYPE: nucleic acid

(C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07265  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6109:  
 GATCAATTGA AATCAACTGT GTTTTGTNTT CTCTATGTCA AAGTTTAGTT TTATATTGAG 60  
 AATGTTAAGT TATTGCTTTG TATCTNGGGA AAAAACTTT GTAAATAAGN TATAAAGTTT 120  
 CTTTGAGACA GTAAATTAT GATTNCTTGA AA 152

(2) INFORMATION FOR SEQ ID NO: 6110:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 337  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07266  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6110:  
 GATCTGCTCA CCTCGGCCCTC CCAAAGCCTC AGCCTCTTAC AGTGTTGGGA TTACAGGCGT 60  
 GAGACACTGT GACCCGGGAC GATTTTCAAT CACAGTTTTT TGNTACGAGT GGAAAATGCG 120  
 TATTTATAAG AATGAAGTAG TACAGACATG ANTNTGTAGA AATCTCTATA ATCCTGCCAT 180  
 CCAAGGTTGG TACCTGTAA TGTGTATATC AGGGATGTGC AATCTTTTGG CCTNCCTGTG 240  
 CCACACTTNG AAGAAGAAGA ATCGNCTTGG GCCACGGATA NANTNNCACT AACACTAGCA 300  
 ATACCTGGTG NGCTGAAANA GNNAGTTAAT TCNCNTN 337

(2) INFORMATION FOR SEQ ID NO: 6111:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 76  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07267  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6111:  
 GATCCTGTTA ATNAAACCAC AGACACCATA TATCCTTCTG CATCCTTTGG CCAATAAAAG 60  
 TTGCTGGAGA ACCAAA 76

(2) INFORMATION FOR SEQ ID NO: 6112:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 176  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07268  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6112:

GATCAAGGAG AGTCACAGCC TTATTAAAAG TTTATTAAAC AATANTATAA AANTTTTAAA 60  
 CCTACTTGAT NPTCCATAAC AAAGCTGATT TAAGCAAAC GCATTTTTC NCAGGAGAAA 120  
 TAATCATATT CGTAATTTCA AANGTTGTAT AAAANTATTT NCTATTGTNG TTCAAN 176

(2) INFORMATION FOR SEQ ID NO: 6113:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 63
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07269

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6113:

GATCGACACG TGGGGGCGCC TGAGCGAAGA TAACCGTAAT AAATAGTAAC CTAACGGTCC 60  
 AAA 63

(2) INFORMATION FOR SEQ ID NO: 6114:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 73
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07270

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6114:

GATCAGNCCT CGCGCAGTGG CTCAAGGCTG TAATCTCAGC ATTTTGGGAG NCCGAGTGAG 60  
 ACCTTGTCTT AAA 73

(2) INFORMATION FOR SEQ ID NO: 6115:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 243
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07272

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6115:

GATCTTAAAT ATTCTAAAGT TTGTATTGTG ACTTCCAGTA ATGTAAACTA TATGAGGCTA 60  
 ATCCTCTTTT CCTCCTTTTT GTTTGTAAAC CTCATTGGG ATAAGTGTA CTAGTATTAT 120  
 TTTATTTATG TAATAAAAAT ATATGTGAAA TAAAGTGTTA CTGGTAAAGG ACTTGTAAC 180  
 ATGATAANTA TTAGCAAGTT GCATACAGAN TTAANAGNGN GGNGNGNANG GNGTGNGGTN 240  
 TGN 243

(2) INFORMATION FOR SEQ ID NO: 6116:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 199
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single

- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
- (B) CLONE: HUMGS07274
- (ix) FEATURE:
- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6116:

```
GATCAGAAGT TCAAGGGACC GTGAAAGCCC TCAGAGTCAG CACCTAGTTT CAGACCAAGC 60
ACCCTTTTCGA ATCCCTGGAT GGCTGAGGGG GCTGAGGCCG GCTCTGACTG GGCAGCTCAG 120
CNCCTCCCCC AGAGCCCAGG GTCTTGCACA CCCCTNCCTG TAACCAAGGA AACTCTGAA 180
ATAAAGGTGA ATGGCTAAA 199
```

(2) INFORMATION FOR SEQ ID NO: 6117:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 283
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07275

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6117:

```
GATCAAAATA CTAATAAATT ACTCACAGAC TCAGTGTATT TTTNCTTGGA GTAAAAGTCC 60
AGGATGGGTA ATAGAATACC TGCTGTTGGC TTTTGGAAAA ATTGGTACTG TATGTAGCAA 120
AATAATGTGA AACCCATATG CATGGATATT CTTAACAATT TGAAGAAATC GTCACAGCTT 180
TCCTGGGTTG TTGAGCCTCT AAGATGGTCT TTTCTCTCTGA TGTGATAATA AAGTGTTTAT 240
TCTGANCTCT AAAAAAANN NANNGNGGNG NNTGNNGTGG NGN 283
```

(2) INFORMATION FOR SEQ ID NO: 6118:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 317
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07276

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6118:

```
GATCACAGTT TTACAAATCT TAGTTTTTAAA TAAATTATTT CAGTGTGCTG TTAGTCCTCT 60
ACAGTCATTT TGGTTTAAAA AGTGACTATT TATTTATGGT AGNATATCAA TAATTTATTA 120
ATGTTAAAAA ATACTGTGTA TGACATTACA AACCAGANCA GTTCCTGGGG GAGAGGNTTC 180
TNATTGATTG GCAGTTCCTGA GAGGGCAAGA NGANTGGNAC TTTATNCTTC AAAAGGNGGT 240
TTTGGTTTTN CCAGGTACTG CTTATGTNAA TCGTTTATTT TTNTTTCATC AAAGCCTGGC 300
ANGTNTATGC NTTCCAN 317
```

(2) INFORMATION FOR SEQ ID NO: 6119:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 360
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07277

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6119:

GATCGACGAG CTGCTGCAGG AGTTCGAGGA GAAGAGTGGC CGCACCTTTC TGCACACCGT 60  
 CTGCTTCTAC TGAGCCCAGC GCCCGCATGG AGCCGCCTCT GGAGCTTCCT GTTGTTTCATA 120  
 CTTTTTCCTT CCTGACATTT GTTTTTACTT ACAGGTGTTC TGCTGGTGAC GGTAGCATT A 180  
 CCCAAATAAA CTGTGCATAT GAAATGGGAG AGGAGATGCC AAAACGCCAG ATGAAAGCAA 240  
 TCAAGTTTCT TCTTTTCCAC TTTTACTTAT GAGCGGGATA TTGATTACAN GGNNTTCTT 300  
 CTTTAACCAA AAAGGAAAGA CANCGGTTTG TGTGCACTTC CCGNCATACC TGTGTCTTTN 360

## (2) INFORMATION FOR SEQ ID NO: 6120:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 292  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07278

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6120:

GATCGGGAAG ACTGAGTAGG GAAGGCAGGG CTGCCNAGAA GTCTCANAGG CACCTCACGC 60  
 CAGCCATCGC GGAGAGCTCA GAGGGCCGTC CCCACCCTGC CTCCTCCCTG CTGCTTTGCA 120  
 TTCACTTCCT TGGCCAGAGT CAGGGGACAG GGAGAGAGCT CCACACTGTA ACCACTGGGT 180  
 CTGGGNTCCA TCCTGCGCCC AAAGACATCC ACCCAGACCT CATTATTTCT TGCTCTATCA 240  
 TTCTGTTTCA NTAAAGACAT TTGAATAAA CGNGCATATC ATAGCCTGGA AA 292

## (2) INFORMATION FOR SEQ ID NO: 6121:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 30  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07279

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6121:

GATCCAATAA ATNTCCTTTT TTTGCTTAAA

30

## (2) INFORMATION FOR SEQ ID NO: 6122:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 149  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07280

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6122:

GATCGGGAGA GGGAGGAGAG GCAGTCTCTT GACAAAATAA AGTATTTTTA TTCATTTGTG 60  
 TTTATTAAAT GAAAAANCAA TCCCATGGTG TCCCTGTTGT GTGGTGGACC TAATGNCTGT 120  
 TGAAATAAAG TTCTGTGTTT TCCCTGAAA 149

## (2) INFORMATION FOR SEQ ID NO: 6123:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 216
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07281

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6123:

```
GATCCACCAA TGGGAATTAGA TGGGTAGAGT TGGGTTCTTG AGTTTACCA CCACTTTGTT 60
CCCACTGAAT TTTGTAACCT GCTGTGTTTG CATCCTCTGT TCCTATTCTG CCCTTGCTCT 120
GTGTCATCTC AGTCATTTGA CTTAGAAAGT GCCCTTCAAA AGGGGCCTGT TCACTGCTGC 180
ACTTTTCAAT GAATTAAAT TTATTTCTGT NCTAAA 216
```

## (2) INFORMATION FOR SEQ ID NO: 6124:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 205
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07282

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6124:

```
GATCTCATCA ACCCTTTGAA ATGTTCTGGG CAGCACAGCT CCTTGGTCTG CATGGTTGGT 60
GTAAGTATAA TCANGTAGTG AAATTGTATG GTATATACCT ATATGCCANC AGTGACACC 120
CGTATGTGCA GAATTTGCTA NTATAACCAT TTCAATAAAA ACCTATTGAA AAAGCTGAAA 180
AAANNANAAA NGNAGGAGGN GNGGN 205
```

## (2) INFORMATION FOR SEQ ID NO: 6125:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 279
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07283

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6125:

```
GATCTTTGCC AGGGGTCAAA GCGTCGGGAA GCTTGGGGTC CTTTCATCCTG ACGTTATCAC 60
CAAATTTNAG CTGACCATGC CCTGCTCCTC CTTAGAAATC AATATTGGAC CCTTTTGTG 120
AAGATTGGTC TCTGTGGTGT GATTCTCTNC CCAGGTGTCC CTTTCTCCTC CCCTAGTGTC 180
CTTAAGTCCT CCTCCACAGG GAACATCTAT TTGGGCTTTG ATGTTTAATA AAGTAGAAAG 240
CACTGGNAAA AAAAGAAANN NGNNNTGTGT NTGTTNNNN 279
```

## (2) INFORMATION FOR SEQ ID NO: 6126:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 226
- (B) TYPE: nucleic acid

(C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07284  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6126:  
 GATCCTAAGG AACATAAAGT TAATTAAGAA CTTACACCTA ATTATGTAAA TNGCCTTGTT 60  
 AAAGACATGT GATTTGTATT TNAGATGCTT GTTTCCTATT AAAATACAGA CATTCTCTACC 120  
 CTCAGTTTCT AAATGTAGAC TATTTGTTGG CTAGTACTTG ATAGATTCCT TGTAAGANAA 180  
 ANTGCTGGGT AATGTNCCTG GTAACANGCC TGTNANTATN TNANGN 226

(2) INFORMATION FOR SEQ ID NO: 6127:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 339  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07285  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6127:  
 GATCCCATTT AGCCCCTGAA CATAATACCA TCTGCAGTAT TATAAAAGTC ATTTAGAAGG 60  
 TCAGGGGGAT AATCTAGAGG CAGGATTTTG GACATTGTGA AGGAAATGTG CTCCTTCTCA 120  
 GCTCACTTCA ATAACATTTT NCTGAGACTG AAGTTTTTTA GACAAGANTA AGANAACCTT 180  
 GCTTTNTTCA GTTATCACAT GTGANAGCTT TTGCTTTTGG TTAGGAAANG GTGTGGNTGA 240  
 CTCTACTGCG TGGNTGGTTA CATTTTGCTT TCCGTGNAAT TGCTCNGGAA ATGNTCNGGA 300  
 CATNCCNTTT NCCATTTGTG TGTCAGTGCG TATGGTNAN 339

(2) INFORMATION FOR SEQ ID NO: 6128:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 269  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07286  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6128:  
 GATCTCCTAG GACCTAGTGG ACATCTGGNA TTAATTTAAT CTCAGGAAAA ACAAGANATN 60  
 AACCCAGAGA GAGTCTGGGT TCTGGAATTC AGCGTANTAC CTCCAGACCG TGGTGTCTGG 120  
 CCTCCATTTT TGTCTGTNAT TCAGCTCTGA CTTACAGCTG CAGTCACCTT TNCTATAAGG 180  
 CACCTGGGTA GAAGGGTGGG TGGGCTTCAC ATCAAATTTT TTNCTTCCTT TAGGGTGGGG 240  
 NATTGGNTTG GCTNTNTTTT GTNGTGGNN 269

(2) INFORMATION FOR SEQ ID NO: 6129:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 47  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:



(B) CLONE: HUMGS07287

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6129:

GATCTGTCCT CCAAATCCTC TATTAAACCT GATAGCTTGA GCACAAA 47

(2) INFORMATION FOR SEQ ID NO: 6130:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 330

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07288

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6130:

GATCAGCCCT TCTCAGCCTC CCAAAGTGCT GGGATTACAG NTGTGAGCCA CTGTGCCCCGG 60

TTCTGTGGCC TTTTCTAACA TTATCCAAGN NGCCCTAAGG TTCCTTATGA CAGGTTTGGG 120

GATTGGGAAA GTTCAATTTT ATTGTACCGC CAATGAAAAG GTGCTATATT TTTTCTTGA 180

ACCTNAAGGG CAGAGGCTGA ATTAATCATA TTCCTCAGCT CATTCCACAT TATCATGGCA 240

AAGCTCTCTT TTGCTTTATT TATTTATTCT CTNNTATCTT CATACTTAAT CTCATTCCAT 300

TCTCTGNCAT GGGCAACCAT NNNAATNGNN 330

(2) INFORMATION FOR SEQ ID NO: 6131:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 333

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07289

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6131:

GATCTTACAT GAGCATAATC ATCCTTATAC TTCATGAGGG GATTATNAGT ACAATCCCCA 60

TTTTACTGTG TTTGAGTTAA AAACCAAACA TCCCTGTAAT TTAATTTGAA GATTCTTTAA 120

CAGATTGCAG CAAAGTTCAT TATAAACTG TTATGGTGTC TTCAAAGNCT TGATAAAANT 180

AACACTGNGA GAGANTTGGT CCATTTGTAT GCTGTATTTC TATTACTTGC CAAANGGAAT 240

GGGGNTAGGA TTAACCTTGT TTCCATTCTC TTCNCATGGG TATCCATCCC CATGTTTANC 300

TGNCCACNCT GGGGGGCTCN GTTGTGTGCT GTN 333

(2) INFORMATION FOR SEQ ID NO: 6132:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 21

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07290

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6132:

GATCATAAAT AAATGTTTAA A 21

## (2) INFORMATION FOR SEQ ID NO: 6133:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 331
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07291

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6133:

```
GATCATTTTC AAAAATTGCA TTGGGGCCTT CGTTATTTAC CATAGTATTT NCACTTTCAT 60
AGTTTGTGCA CCTTTTGTGTA CTGTGAACAG TTCAACCACTT GACCGACTTC TCTCTCATGC 120
TGTTTACCCC ACACACAATT TCCCACTCAA TTCTGAAAAT AAGAACCTGT TAATAGGTTG 180
GAAAGCTGTG TACTCTATTC ATATATTGTC CTTTCATGCT AGTGGAGAGT GGTGTCATTA 240
GCATCTNAAT TTTAGAGTTG TGNAATGATT TTNCCAATTA GGAATTGANT GTGTATTTNT 300
NTCTGTGTTA ATAAGNNGNG CAAATNTGNT N 331
```

## (2) INFORMATION FOR SEQ ID NO: 6134:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 40
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07292

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6134:

```
GATCTTAAAA CAAATGAAA TAAACGTGAA AAGGAGCAAA 40
```

## (2) INFORMATION FOR SEQ ID NO: 6135:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 53
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07293

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6135:

```
GATCGTGAAT AGTAAGTATC ACTTCCATAA ATAGAAAGTG TCAGAAAAAT AAA 53
```

## (2) INFORMATION FOR SEQ ID NO: 6136:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 336
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07294

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6136:

```
GATCTTGAAA GAGGTAAAAT AAACCTTCAC TGCTCCACTC CAGGTGAATC CGCCCACTCC 60
CACTGACCTA GTAGAATTTG TAATTTAATA CTTACCTTCT ATTTCTGAAA TCAGTTGTGA 120
ACTGTTGCCT TATGTTTACA GGTTTAAGAA CCTCAGTGAA TTCATTTTTT AAAATCTGCT 180
ATTCTGAGAA GCATTGAATG AATTCTTAAC AAGAAGNCTC ATCTGTAGCT GTTTGCTGAC 240
TCCTATGAGC CCATAAGGGT TCTGTGCTTA GCATTAACAA ANTAAGGTTT ATAGGGTAAA 300
AGCCAATGTA TTANTTTTTT TTTGCATGGG GGGCNN 336
```

(2) INFORMATION FOR SEQ ID NO: 6137:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 235  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07295

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6137:

```
GATCTAGGAC ACTCATATCC AGGGTGATTC TCTTCATAAG GAGGCATGGG CTGAGTCTCC 60
ATTTATAGGG GCTGTCCCA TAGAGACTTC AAGCCACACC TTTCTAGGGA TTCAGGTTGC 120
ACATTACCTG ATTCTCACAG TTGATTTGAG CCTGCAAGAC TGTAACCCCA TCCCATTATC 180
ATGTTTTCTT CCTCATTTAC CTACATTTAT CATTAAACCT TTGTGATTCA GCAA 235
```

(2) INFORMATION FOR SEQ ID NO: 6138:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 142  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07296

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6138:

```
GATCCAGGAT GACTGTACAT CTCAGATAAA GGAGGCTCAG CGCTGGAAGG ACAGCTGGAA 60
GCAGTCCCTG CACACTATCC AGGGCCTGTA TGTGTGACCC TCCGCCCCAC CATGAATAAA 120
CACTTTCTTA TACAGACTCA AA 142
```

(2) INFORMATION FOR SEQ ID NO: 6139:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 277  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07297

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6139:

```
GATCCGCCAA GCAGGGCAGT ATCTGGGTTA CAGCCACAGC AGGAAGAACC ACTGGAGAGA 60
CACTCAGAAG GACTTCCCTG ACATCTGCAC CAAGGAGAGT CTGGACAAAG CTAAGTAAAC 120
TCCTCCACCT GCTTCTAAAA TGCCCAGAAG CCAACTGGAC CNGTTTGGTA TTTNGAAGTA 180
```

GGNGGNTGGN GGCTTTAACC NCCAAAGGGT TCCTGAAGCC CNGGAACCTG GANTNTGGAG 240  
GGGGTTNNGG CCTTANTTGA GGGTTGGTGG GTTTCNN 277

(2) INFORMATION FOR SEQ ID NO: 6140:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 247
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07298

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6140:

GATCAGAAAA CATTGATTTA TATTTAAAAA TAGGATATTG GAGCCATTGT CTTAGATAAT 60  
TNNCAAGGCA AGANCAAGCC TGCAATAAAT AATGAGACTT TGACATTCCT TGGCGAAGAA 120  
GATGTCTCCT GCCCTAATAT GACTGTCACT CAGCAATTTT ANTTTTNTGT TTAAGTTGATT 180  
TANAANGGGA GGATAANTTG TCCTGANAAG TTTTTTTGTT TCCTTAACAT TTCANNGTTT 240  
TCNCTGN 247

(2) INFORMATION FOR SEQ ID NO: 6141:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 228
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07299

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6141:

GATCCCTGAT GGGATGCCTG AAACCCAAAA TACTCTTAAG TCTTGATTTC TAGGGCCTTC 60  
TAAGGCAAAA NATTGAGAGA CCCAAAAAGA GAAAATATGT TTAGTAAAGA AAATATTTNC 120  
TTTGACTAGT TATGATGGTC ATATAGGGGA GANAAGGCAA ATTTTGGNAA TGTAAGATGG 180  
GGACANTTAA TGTNTATNCN CTGTCCAANT TCAANAGGTA CAACNGAN 228

(2) INFORMATION FOR SEQ ID NO: 6142:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 228
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07300

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6142:

GATCCACCTG TCTCTTGAAG ATATAAAAAG ACAAACAGG TTTGCCTTGG CATCAGAGAG 60  
CACAAAGATT AAAAGTTACT TTAAATTTGC CAATATTTTG GGAGANCAAT AAANCTACAT 120  
TTTTCCCTCT TCCATACTGG TAGATGCGAA ATTATCTGT GCATGANAGG GTCACCTCTG 180  
TNATCGTGCA ACAGNTTTGG TATTANNCTT TNNCTGTGGT TTTNCCAN 228

(2) INFORMATION FOR SEQ ID NO: 6143:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 299  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07301  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6143:  
 GATCCTCTGA TATACAATTA GAGATATTTT AATATAGNCC CCAAGCATTC TGTGCATAAA 60  
 AGTTAACATT AGGCTGTGGT GCAGTAACCA TTTAATGTCG AGGCTCTATT TCGGAAATAC 120  
 ACTACAAATG TTAAAGTACG TGGCTGTCCT CTTAAGNCAC TAGTAGAGCA AAGCCTTAAT 180  
 CATATCANCT TAATTCTGTT ACACAATATG TGTTTTNNAA TATACTANCC ATTTCTNATG 240  
 GAANGGTCCT GTGGGGNGCC CNTCCTCTCG CCANGCCATC ACAGGCTCTG CATAACACGN 299

(2) INFORMATION FOR SEQ ID NO: 6144:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 152  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07302  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6144:  
 GATCGGGTGC TAGGACAACCT GCAGTCCAAT CCACCAGCTC TCCNTGCCCC TGTGTCTTAT 60  
 TTCAGACATG AGAATAACTG TACAGTGTA AACTATAAAG CGTTTTTAAT GGTGTAGAT 120  
 TGGAAATAAA GTATGTCATA TGAACAGCTA AA 152

(2) INFORMATION FOR SEQ ID NO: 6145:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 131  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07303  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6145:  
 GATCCACCT GCTCAGGCCG TACACCTTAT GGGGAGCCAT TAAGGGGNCT CATCTAGGCA 60  
 TTCTGGNTAC AGCCAGTGC TCATCCAGC GTATGCTCCN CTCTNTAGNG CAGCCTAAAG 120  
 NGTCAGCCAC N 131

(2) INFORMATION FOR SEQ ID NO: 6146:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 154  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07304  
 (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6146:

```
GATCTTCAGA GAAATAAAAC TTGAGTGCAG TAGTTTATTT GCGGTTTGGC TCCAGGATGC 60
AGGNGTGGGA AAGATGGTAG AGAGCCAGAA GAAAANTCAA TAGAACGGTA TTACGGCGNN 120
TGGNTATATA ATNCTTCCCN GAATTGTCTG ACTN 154
```

(2) INFORMATION FOR SEQ ID NO: 6147:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 251  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07305

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6147:

```
GATCCAGTGC TATTCTGTCA CCAACCTAAG AATCCCAATT GCACCTTCTG TTTCTGACAG 60
TCACAGGTGA CAGCTGNNGN TCTATAATAC AGACTGGTGT CTAGAGGTA GGAATAATAC 120
ATGATTATNA AGCATCACCC TGCTAATACA TAATAATGTC TTTTATATT ATAAGNGATT 180
GAGTTTAGTT CATTNCAATA CATTGTACN TGTA AAAANT GCAANGTNGA CCTNNGTAAT 240
CNTTTAATCG N 251
```

(2) INFORMATION FOR SEQ ID NO: 6148:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 213  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07306

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6148:

```
GATCTCGGAG ACTCNGTCCA TTCTAAGATA CCATGTTTCC ATGACCCTAC ACACAATAGC 60
TACACAGGTG GAGCAACATG AGTCTGAGNA GCTTGCACA AAAGANGCTT GTTTCCACA 120
AATGNANCTG GGGTGGTTAA CTTCTAATTG TACCCTGTCT TAGCGTTCAG ATGCATTGGT 180
TCCTTCCCCA ATGTGACCAT CTNNNNATTN NAN 213
```

(2) INFORMATION FOR SEQ ID NO: 6149:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 113  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07307

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6149:

```
GATCAAGATG AATNTAATGT ATAATCAGAA TCCTAGGTAA GTAAACAAAA AAAGGGTTTT 60
TTTNAGAATC AAACCTTTGG GGATTGGGTG GTAAAGGGAA ATATTNTNT NCN 113
```

(2) INFORMATION FOR SEQ ID NO: 6150:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 228  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07308  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6150:  
 GATCTGTGCA TCTGGCCAGC ACTGTGGTGA CATCCTTAGG AATCCATGGG GAGAGAGAAA 60  
 GCATTCAGGA GTTAGTGGGT CACGTTTGAC AAGGGCCAAT AAAGAAATAT GCAAAGACAA 120  
 AAANCAAGAA GNACATTGTC ATATTNCTA CCTTTTGTTC ATATAAATTT ATNTCANTGA 180  
 TTTTCGCTTN TGTTAATNTG CAATGTATAT NNTATGCTAA CNTTTNCN 228

(2) INFORMATION FOR SEQ ID NO: 6151:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 42  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07309  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6151:  
 GATCACAATT GTGGACATTA AAACAGAAAC TGTTCACACA AA 42

(2) INFORMATION FOR SEQ ID NO: 6152:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 311  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07311  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6152:  
 GATCCAGCTT ATNCTTTAAT TTTCAAGTCC ATTCTTGGGG CTGGTGGGGA GGCAGGAGAA 60  
 TACCCCTCCC TAAGCCCTTA GTGTGTGCCG AGCTTGCTTT GTNATGTTGG CAGGGGAGGG 120  
 GAGACCTGGG TGGTGACTGA GTTCCCTTTA TCAAACCCTT CAATGGGCAC AAAATTGAGT 180  
 GCTTGATTTT AGGTTTATT TTTTATGAA TGTCCAAATC TGTGTTTCCC CCTGCCATCC 240  
 CAGACTNTGT GGCCAGTTNA AAAGTGTCTG GNNTGTGTTC ANCTCTNCCC TAANATNCTG 300  
 GAGNAGGGGT N 311

(2) INFORMATION FOR SEQ ID NO: 6153:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 270  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07312

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6153:

GATCTNNGTG GGTAGCCTCA AGCTGGAGAC ATTGTCTGNC CTCACTGCCC ACTGGGTTAGA 60  
 GACACCTGGA TGACATTTCA GTACCCGCTG GCAGCTCCTC CCACTCATCC AGAGACGGCC 120  
 GGTGGGCAGG CGGGGAGAGC AGCTTTCCTT CCCTGGNGAG AACCGTCTTT ACCTCAGCTC 180  
 CTAGGGNCTC CAGCCAACAA AGCTNCAGCA CGGTGACTNG GTGATGGGNG ACCAATNNCA 240  
 GAAGTAAANN GACTGTAGAC CNATATTCCN 270

## (2) INFORMATION FOR SEQ ID NO: 6154:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 40  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07313

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6154:

GATCAAATTC TAAAATAAAG TTGCCTGTTG TGACTTTAAA 40

## (2) INFORMATION FOR SEQ ID NO: 6155:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 130  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07315

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6155:

GATCTATACT TAACATATTT AAAATAGTGA TGATTGAAAT AACTGCAAGG TATAGATGNA 60  
 ACTGAAGGNT TTCACATTCC TTTTTTGTTT ATCATTGGA ATTNCTGTA TTTANCTGNC 120  
 TAGAGANCAN 130

## (2) INFORMATION FOR SEQ ID NO: 6156:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 173  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07316

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6156:

GATCATATCA CTCAATGTGG CCATTAATAT TTCTGGAGAA GACACAAACC TATTTATAAT 60  
 ACTTTTNAAA AATCCGAAGT GATAATAAGA NTGTTTTTAC ATTGAAAGTA ATACTTAAGT 120  
 GTTTACATAA CATTCTGTAT GCACTCAAGA AAATAAAGTT TTGTTAATAC AAA 173

## (2) INFORMATION FOR SEQ ID NO: 6157:

## (i) SEQUENCE CHARACTERISTICS:



- (A) LENGTH: 248
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS07317
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6157:

```
GATCTCAGTT ACAGTTTTTTT TTTCCTTTTT AATTTCATTA TTTTGGGTTT TTGGTTTTTG 60
CAGTCCTATT TATCTGCAGT CGTATTAAGT CCTATTGCTA GAATAGGTTA CTNNANGAAA 120
GATTATATTC TGAAAGAAAA ATAAGTACA TTATATATAA CCAATTAATT TAANGTATTG 180
CCATTTAAAT TACACACTGN GAGCATGTCC TATGCAGACA ATAGATTTTN CCTGTNCAAN 240
NNNTTNTN 248
```

(2) INFORMATION FOR SEQ ID NO: 6158:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 187
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS07318
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6158:

```
GATCCAGCAG CGCAGGCAGG AGCTGGAGCA GTCGCTGGTT GTNCGCAACA CCTAGGAGCC 60
CAAAAATAAG CAGCACGACG GAACTTTCAG CCGTGTCCCG GGCCCCAGCA TTTTNCCCCG 120
GGCTCCAGCA TCACTCCTCT GCCACCTTGG GGTGTGGGGC TGGATTAAAA GTCATTCATC 180
TGACAAA 187
```

(2) INFORMATION FOR SEQ ID NO: 6159:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 21
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS07319
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6159:

```
GATCATAAAT CCCTGTCTAA A
```

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(2) INFORMATION FOR SEQ ID NO: 6160:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 122
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS07320
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6160:  
 GATCAAACGT GCTTAAGAGC TAACTCGTGA CACTATGCAG TATTGTTTGA AGACCTGTTG 60  
 TTCAAACCTCT GTCTCTTTAT GTTAACTGGA TTTCTGCATT AAATGACTGC CCCCTTGTTA 120  
 AA 122

(2) INFORMATION FOR SEQ ID NO: 6161:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 125  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07321

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6161:  
 GATCTCTGAC TCATTGTGGC ATATGAGGTG TAAAATNTTG TCAAAAAAGA ATCTGGTGTT 60  
 TAAACCAAAA TCACACTATG GTGGCATTAA ACCGTTCACT TTTATTCTAA ACNNNANCCA 120  
 NCGCN 125

(2) INFORMATION FOR SEQ ID NO: 6162:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 41  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07322

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6162:  
 GATCTGTCCA CGACATGGAA AATAAACTGG ATTTTCAGAA A 41

(2) INFORMATION FOR SEQ ID NO: 6163:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 137  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07323

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6163:  
 GATCCTATAC GTGAAGGAAC ATATTTAATT TCCTCNCTTT ATATTTCTCTG GTTAAATAT 60  
 CGTCATTATA GTTAGCAATT TGGAATCTGG CTTACATTGG TTGATACAAA TAANTAATAG 120  
 ANTANNGCAA NATCAGN 137

(2) INFORMATION FOR SEQ ID NO: 6164:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 88  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07324

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6164:

GATCTTTTTT CTATGCGTAA TCAGACATAC ATATATACTG CAGTGTATCT CACGTATTAA 60  
 TTTTAAAAAA TCTTTTGTTT TACTTAAA 88

## (2) INFORMATION FOR SEQ ID NO: 6165:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 274  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07325

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6165:

GATCTCTGTA TTTGTNTTTC AACTAACAAC TAATTTNAAA TGTATTGTAT CTTTAATNAC 60  
 CTGTNCTCTT AGATTGTNTT TTGCTAGTAA CCCTTACTCA GCTTCTGCCT TTGGGGCTTG 120  
 GACTAATATT GCTTGTATGG AACTACAGTA CTGTGACTAA ACATGGAGCT CAATGCAGCT 180  
 ACTGCTTACA ACTGCTTAAA CTTTGTAGTG TGGACTTCAT TTTTTTCTGT AATAACANCT 240  
 TATTAAATCC TNGGTGGTAT GGCGGTCCTG GAAA 274

## (2) INFORMATION FOR SEQ ID NO: 6166:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 310  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07326

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6166:

GATCATGTTC AGAAAGGGAC TCATTTGGTC CCACTTTGTA ACATGGGAAG AGTAGAAGAG 60  
 AAAATTAAT GTGGAATCA TAAATGCTTT TCTAACAGGG TTATGCTATT CTGTAACACT 120  
 AAATGTCTGT CTTTCTCTT AAAAGATTAA GTTTTATTAA TTTTGTCTATA CATTCTCTA 180  
 TTTGANTATA TCTTAACCAT TTTATGTTCC AAATTCGTTT TTTGTCCAAG ACATTCTATC 240  
 AGANTTTTNC TTGCCTCTAT AAATCTGAAA ANTGGGTTCT AGAATGTCCC ACTTGCTGTC 300  
 TCTNAGAGTN 310

## (2) INFORMATION FOR SEQ ID NO: 6167:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 307  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07327

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6167:

GATCCGCCCCA CCTCAGCCTC CCAAAGNGCT GGGATNACAG GCATGAGCCA CTGCACCTGG 60  
 CCTTAACCCC TCTTTAGATT GGAAAAAATA NTTACAACTT TAAAAATAGC TTAGTGTTGA 120  
 ACCCTTTGGT AAACATAAGA CCCTTTTATA ATGCACATAT TCCCAACANG GTTAATATAT 180  
 TTNGTGAGAT TAAACAAGGC TTGTATATGC TTGACCTTTC TTAANNTATG TCCATGTCAT 240  
 ACTATTATGA NTGTACATTT TTATGAGTCA TNANTATTNT TTTCAAAANG CGCTNCAGGC 300  
 CCNTGAN 307

## (2) INFORMATION FOR SEQ ID NO: 6168:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 74  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07328

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6168:

GATCAGAAAA TGTGTGACCT TTTTAAAGTT AAATTGTTAA AAAATTTTAA CTATTAANCA 60  
 TTTTAAATAT TAAA 74

## (2) INFORMATION FOR SEQ ID NO: 6169:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 71  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07329

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6169:

GATCTCAGAT GCTAGAAATA GTAGACAAAG ATGTTATTTT CCAGTGCAAA TAAAGAAATA 60  
 AAGATAGCAA A 71

## (2) INFORMATION FOR SEQ ID NO: 6170:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 306  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07330

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6170:

GATCTCAATG TGCAAACCTCC TTGGACTCCA GACCCCTGTC TGGTTGGCAC TCCCAGCAGT 60  
 GTGTGGTTTC ATCAGGAAAT CCTGTCAGCA GGGGTTTAGA TGGTTCCTTC AGGAGGTGGG 120  
 NAGCCTCCAT AGCATTGAAG GCCAGCCTGC ATCTCGCGGT GTGTGTCCAC TTCTCCNCTC 180  
 ACTTTCCCCCT CACCCATCCC TTAAAGTGA TTGGCTGTNA GGNGCACAGA GGGTGGCAAT 240  
 TCCATCTGTN ATGGGNTCAG AAGGCATTNG CCGCCATTNT TGATTTNACA TTAAACTGA 300  
 TGNAAN 306

## (2) INFORMATION FOR SEQ ID NO: 6171:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 65  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07331  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6171:  
 GATCTGTCTG TTGTTGGAAT TGAGATATTA AAATCCCCTA CTATTATAGC GTTCCTCCAG 60  
 TCAAA 65

(2) INFORMATION FOR SEQ ID NO: 6172:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 33  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07332  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6172:  
 GATCTTCCAG CACCAAATTT AGATGGCCTC AAA 33

(2) INFORMATION FOR SEQ ID NO: 6173:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 218  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07333  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6173:  
 GATCAAATGT GTGAGAAAAT CAATGGGTTT TAAAGACTAT TCTATGTCAA CTATAACATT 60  
 TAATTTGGGG ATTTCTGTCC CTTATAATGT CTACCTCATT TTGGATGGAA TCCTTGAGGC 120  
 CTGGTTTATT TTCCTTTNCC TTNCTACACA TCGCTGCTCA GAGTGATGAA TGGAGTTGTG 180  
 TTTTGAATAA AATATCTATG CATCCNTTTG TGAGCAAA 218

(2) INFORMATION FOR SEQ ID NO: 6174:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 186  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07334  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6174:  
 GATCATGTTT TAACTAACTT CATTTTGTG CTGAATCATA ATNNATGCTC TAATGACCTT 60

TTCTTTCCTA TCCCAACCCT GTGTAATCTG CTCTATTTAG GGCTAATTGT TCCTTGCTTT 120  
 GTATGTATGT AATGTGTCCT NGTNTTCTTC CTCCTATTNN NTNCTCATAA AACTCCATCC 180  
 NNTTTN 186

(2) INFORMATION FOR SEQ ID NO: 6175:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 152
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07335

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6175:

GATCCATTCA ACTTGTGTGT ATCAGTAGTT AATTNCTTTG TATTGGTCAG CATTCCATTA 60  
 TTTGGAATTT ATACAGTATG TTTATCCATT CACCTGTTGA AGGACATTGT TTCCAATGCT 120  
 TATTACTAAT AAAGCTGTTA TGAACATTCA AA 152

(2) INFORMATION FOR SEQ ID NO: 6176:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 236
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07336

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6176:

GATCTGTATT TAATGAGGAG GAGCCGAGGC CCCAGCTTCA TCCAGCTTCA ACCAATGCCT 60  
 GGACCTGTCC ACCTGANAGG CCCCTGGGGC TCCCCAGCTG CTGGCCAGAC CCTGGCGCTG 120  
 CCACAGTCCT GGCAGTGCCC AAGGCCATAC CTGNCTAGCC CTTTGGNTCC ATCCTGTGGA 180  
 TGCCCACTCA CCCCTNAGAC TCCTNCTGNC CATGCTGTGG NCGGACTTGT AAGCAN 236

(2) INFORMATION FOR SEQ ID NO: 6177:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 148
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07337

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6177:

GATCATGCCT GTGTTTACCC TCTAAGCTGA AGCTGCTCAT CAACGGTGAG ATGGCAAAAA 60  
 GGTGGGTCCA GAAGAGGGGA AAAGAAGGGA GTCTGTGAAA ACAAATGCT GAAGANTCTG 120  
 CATCAAATAA ACCCTTCCTT CCTTCAA 148

(2) INFORMATION FOR SEQ ID NO: 6178:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 155
- (B) TYPE: nucleic acid

(C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07338  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6178:  
 GATCTCCTTA TTGACCACAG ATTATTCCTC TGTTTCAGCAC TCCTTATTCT TATCCCTGTT 60  
 ACAATTCTTA TTATGGTGCA CAAGCTCCAT AAATATTTAT AAAACTGATA TTAATTGANT 120  
 AAAATATTGT CTAGAGGTCT CAGTCATTCT TCAA 155

(2) INFORMATION FOR SEQ ID NO: 6179:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 198  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07339  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6179:  
 GATCATCTAG ACATAATTNC TGAAGATGAA CTTTGGACC AACTTCTAAG TCACACAGCA 60  
 TCATTATCAG ATTTATTACA CAACGNCTTT TTNGTTTNA CTCTATTCT GAGGAAAAAG 120  
 CCTTCCCGAA ATCCGTAATG ANTTTNTCCA TGGTAACCCC TCTCCTGTTT TNACACAGNA 180  
 AAGTTTCTCT NGA CTGTN 198

(2) INFORMATION FOR SEQ ID NO: 6180:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 188  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07340  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6180:  
 GATCGCTGGT TTCCTCTGCA GCGCGAGGGC TCCGGCGACC AGAGGATTCT NCCCGGAAGG 60  
 CATTCTGCC GCGCTCCNG GGCACCCCT CAATTGTGTA CTACGTCCTT GTTTAGTGTG 120  
 TATCCGTGCC CACGTAGATG ATGTCTGTAA CGNAGTTTTG TTTGAAATAT GAGNATATGC 180  
 GGCTTAAA 188

(2) INFORMATION FOR SEQ ID NO: 6181:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 135  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07341  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6181:

GATCAGTTTA TTATTGATAC ATCACTCCAT TAATGTAAAG TCATAGGTCA TTATTGCATA 60  
 TCAGTAATCT CTTGGACTTT GTTAAATATT TTNCTGTGGT AATATAGNGA AGAATTAAAG 120  
 CAAGAANTTC TGAAG 135

(2) INFORMATION FOR SEQ ID NO: 6182:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 226
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07342

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6182:

GATCAGTTTT CCNAGTCTTT GGGAAACGGG TTGTGTTTTT TNCCCTTTGC CGTGTGAT 60  
 TTCCGGTCCC GGCTGACACC TCCCTTCGTG TGTGCGNCCC TCCCCACCCC TGCCTTTGTN 120  
 TCGGTGCCCT GTGTCCGTTT TCTNATGTGG GGATGTTTGT GCTGCAGACA AAAAGAACAA 180  
 NAAAAANTTT TTAAATACCA CAAAGATGGN ANAAAANGAC AAAANN 226

(2) INFORMATION FOR SEQ ID NO: 6183:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 97
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07343

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6183:

GATCGTCACA TGCCGGGGAG CAATGTGGAT GGCCTGGGGA CTCCTGGGTT TTCTCCCTCC 60  
 CGACTCCCTA ATAAACCCCG TGAACCTTGG AGCCAAA 97

(2) INFORMATION FOR SEQ ID NO: 6184:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 321
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07344

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6184:

GATCACCTTN AGTNCTNAGC AGGGACTAGG CTTGCAGGTA ANATAATGGG CCAGGGCACC 60  
 CAGTCCAGAA GGAGCAATGG CACCTGGGCA GTGCCAGGCC TTAAAGCCCG CTGCTCCTTT 120  
 NCGGTAGAGG AGAGGCCCAT CACTGGTGTG GTGGGGTGGG CTCTCCCTTA GGCTTGGGCA 180  
 AGGCAGCCAC CTGCCCTTNC TCTCCCTTAG TGTTCCCTGG CCTCCCTGCC ATCAGGTTGC 240  
 TGGGAGTGGA GATGGAGGGA TTATTGAGCA GAAAATNAGT TGGATGGAGN TAAACAGNTC 300  
 CCATCCCTGG GTAATGGATT N 321

(2) INFORMATION FOR SEQ ID NO: 6185:

(i) SEQUENCE CHARACTERISTICS:



(A) LENGTH: 292  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07345  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6185:  
 GATCAGCTTG GAAGCTTAAA GTCCAATCCT TACTTCGAGT TTGTTTTGAA AGCAAATTAT 60  
 GAATATNATG TTCAGGGACA AATATAACTT TTNCTAAAAA TGGCCATTGT TTATGAAATC 120  
 TGTATAAGTG TGTCTTATA CAAATTTNAG GCCATAACA AGTGTAAGTT TGTACAATTT 180  
 CATAACATGT ATAGCTGAGT TTTTATACTT TATATGTAGG AAGCTAATAT AAAATAGTTA 240  
 TGTAACGTG ATTTTGTTTT TCAGTTATGT GACTTGTTTT TNCCACCNGA AA 292

(2) INFORMATION FOR SEQ ID NO: 6186:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 155  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07346  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6186:  
 GATCCATAAC AGAGATNCAN AGAGGCACCG TGGAGTTCCA GGGTCATCGG TCAGCGAGGA 60  
 ACAAGGAGGG AAAGGTGTCT TCCTGCCCCCT TGATGCTCAA CTAAGCATCT GTTCCCTAGA 120  
 AATACATGTG TCCAGGNNGN NTCCATGGGC TTTNN 155

(2) INFORMATION FOR SEQ ID NO: 6187:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 301  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07348  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6187:  
 GATCTTNAGT TGTTTTAATT TTTTTTTTCT GCATCTGAAT CTGCATGATT TCCAAACCCT 60  
 GTACCATCTG AATTTTGCAT TTNAGCACTT GCACTATTAC TCAGCAGCAG TAACATGGTA 120  
 ACACTTAAAA TGGTACTCGG GGACCTCCAA AGACTAAACT GNCANGCCTT CAAGGNGCCC 180  
 AGGGGTACGT TANCTTGTC ACGGCATGGT TTAATCCCTT CTTTACACTT GTGTAAATTT 240  
 CAGTTACTGG TCATAGNNGG CTTTCAATGT TGCGTGGCCT NTTATTANCN TGTTTATGGG 300  
 N 301

(2) INFORMATION FOR SEQ ID NO: 6188:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 203  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07349

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6188:

GATCTTTATC AATATTCTGG ATTAGACAAC AAATNACCTT TCTGGGTGTT TCTTGTA AAC 60  
 TATACTCCTG TTTGAATGTT AAACCTTGTGTT GCTAAAGTTT AATTTTAAGA TGTTTGAATG 120  
 TNCAGTTTAT GTATTTGANC TACAATAAAC CAACCCTTTT NATATATCTG TNTNGTATAT 180  
 GATTATNGTN ACTTAATTNT NAN 203

## (2) INFORMATION FOR SEQ ID NO: 6189:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 316  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07350

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6189:

GATCAAAGCA GGTGGGGCTT TGGGATGTGA AGTGGGTTCT NACGCGGGGC CCCACAGACC 60  
 TGTCTCCGCG TGANTGCCCTG CAGGCCCTG CGTCATTCCT CAGCTGCGTG CGAGGCCTCT 120  
 GGCTTGGAGA GCCTCCCCGC TGTGCACAGT TCTCTCTTTG CCAGGGCAGG GCTTGGGGCA 180  
 GCACCAGGCT GGGGCAGAGG AGGAAAGCAA GAGGACAGAC CTCCAGAAGA GCAGCGGAGG 240  
 GCGGGTGAGG ATTTCCCAT ATACCAGTGT GTGTTTCATCT ACCCATGAGG AATAAAACCA 300  
 TGCAGCAGCA TGCAAA 316

## (2) INFORMATION FOR SEQ ID NO: 6190:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 129  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07351

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6190:

GATCCCCAGN ACTGCAGCCG AGCCCCGGGC TTCCTTTCTT ACCATTCTGT ATGCTTCCAA 60  
 GGTGTGACCA TTCAAACCTAA CNNTATTATT AAGATTATTA ATAAAGATTT CTTTCTTCAA 120  
 ACCAGGAAA 129

## (2) INFORMATION FOR SEQ ID NO: 6191:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 293  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07352

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6191:

GATCAGAATC AGAAAACAGG TAAACCTCAC TCACACATTT GGACTCATTG GAACAAAAAT 60  
 CTAGGCCAAA ATACTGAAAA GCCTATGTGT TTTTAAATT GGAAGTATAT GTAAGGTAA 120  
 TGCATTTAGT GAACGTGACT AACAAAGACT AATGTGCACA TTAACAGNTG TNCTTTTAA 180  
 GGTTTTATGG GAGGCTGTGC ATTGCTCAAA AGCTGTTGGG AACGCCTTCT GACCAGTTGC 240  
 CTTCAGAACT AGTTTNGCT GCTCANTNAA AANCCAGTGN NTTTACTCNN GGN 293

(2) INFORMATION FOR SEQ ID NO: 6192:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 52
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07353

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6192:

GATCTGCATG TGTGACACTG ATTCTTTGGA AATAAAGAGT GGAAGCTGCA AA 52

(2) INFORMATION FOR SEQ ID NO: 6193:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 236
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07354

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6193:

GATCTAAATT TTAAAAATAG GAATGAATCT NTTAATTGCA GCTTGTGGAG AGTATAAAAC 60  
 ATTTTGTAGCA CAATATGCAG CACATAACTT TTCAGATTGT GTTTGCATAG AAAAGGTAA 120  
 AATCAATTCT TTCAGTTACT GTATTGTTCA TTTCTTGTA AGGTCTTCCT ACATTTGAGA 180  
 CGAGACCCTT TAACATAGGC TGCCTTAGTA ACAAATAAA ACAGATGTGT CATAAA 236

(2) INFORMATION FOR SEQ ID NO: 6194:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 282
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07355

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6194:

GATCTAGAGG GNGGATTTCC AGCCAGGGCT GCTAGACGGA GGCCTACTCT TCCATCTTTC 60  
 CTGATGGCAG GATGGCCTGG CCAGGGCCTG GAAGACAGAG ACCTCCTGCC TCCGCCCTCAG 120  
 TAAGACGACA AGGAAAGGCA AATGCCCAAG GGAAAGAAAA GGAAGGCTCT TCTCCCCAGA 180  
 GTTCCCCATG CAGACATGAG TGCCTGCTCA GTTCAGANTC ACTTCCGAGA ACTCATCCCT 240  
 AATGCTGCAG ATTTGGGCTG GAACAGATTC AACTGTCTG TN 282

(2) INFORMATION FOR SEQ ID NO: 6195:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 158  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07356  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6195:  
 GATCTTCATC TCTTGTTTGC TCCACTTGTA TTCTCTTTTC AGTAACTGGA TTAATGCTTT 60  
 GAGCCCAAAA TGAGATATAT TTNTAATTAC TGTAATTAC ATGTTGTTTG GCTGGGAATA 120  
 CAATACAATA AACTTTATTT TGCATAATGC ATTTCAAA 158

(2) INFORMATION FOR SEQ ID NO: 6196:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 113  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07357  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6196:  
 GATCTGGATT ACTATGTAAA TTCACAGNAG TACCGCTAAT ATAATTTTGT TTGCNTGTAT 60  
 TANCATCATC TGGTCTGNAA ATGTGGGTTT TTATTTGGCA CATTTANATA AAN 113

(2) INFORMATION FOR SEQ ID NO: 6197:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 323  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07358  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6197:  
 GATCTGGAGC CACAGTCTGT NTATCTTCCA GTTCATCTCA GTCCTCGAGA AAGGCCCTNT 60  
 AAATATGTAA CTTTCCCAT TNCCTTTAAC CATGGGTTGT GTGAGCCAGA AAGAGCTTTG 120  
 AGAAAGATGG CTGCTTCCAC CAGGGNGGAG GCTTCTNGGT CTGCATGATG ATGGGGCCCG 180  
 TTTCTGGCCA NAGGGTGGCT CTGGGAGCAG TTGTNCTGCG GGCTTGCTGG GGGCGAACTC 240  
 TAACTGTTGC AGAAACAGNG CTTNATGGCT TGCTNNGGGT ACTTAGCTGG AATATTTTAA 300  
 AGTGTCAGNT AAATGTGATN TNN 323

(2) INFORMATION FOR SEQ ID NO: 6198:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 50  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07359  
 (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6198:  
 GATCTGTATG TACTTTTAGT TGTATTAATA AAGTGACAGT GAGTGTCAAA 50

(2) INFORMATION FOR SEQ ID NO: 6199:  
 (i) SEQUENCE CHARACTERISTICS:  
   (A) LENGTH: 149  
   (B) TYPE: nucleic acid  
   (C) STRANDNESS: single  
   (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
   (B) CLONE: HUMGS07360  
 (ix) FEATURE:  
   (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6199:  
 GATCACCCAG TCTTAAGGTT TCAAAAACCTC TTTGACATTA GATTTCACAA CTGCACAATT 60  
 GANCTTATTG GCCTGTAACCT TATTTNCTAA ATGCTCAGTG CTATTTATAT ACTACAGTAN 120  
 TTNCTGTGTA AGNNGGCAGT TGTAAGNN 149

(2) INFORMATION FOR SEQ ID NO: 6200:  
 (i) SEQUENCE CHARACTERISTICS:  
   (A) LENGTH: 329  
   (B) TYPE: nucleic acid  
   (C) STRANDNESS: single  
   (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
   (B) CLONE: HUMGS07361  
 (ix) FEATURE:  
   (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6200:  
 GATCGGACTG GAACTGTTTCG GCTGCNACCA GAAATTNATT TTCCTGAGTA AATTGCCGAG 60  
 AATTAAGAAT GAAGAGGGCC ATTTGCATCT CCTTAAATTA TTCAGTTACC TGCTTTATTG 120  
 CTCCATGTGG AAAACTTAAA ATTGTTAAGT TGTGCATTAC TGTATTTNAN CTTGTTGCTT 180  
 AGTTTCTNCA TGTTTATTTN CAGTAATGGC TGANAGTGTT AACTGTNCCA TACTTTTNGC 240  
 ACAATGTNCT GCATAAGGTT ACCTGTGTAC AGAGTTTTAC TTTAGNTTAN CTAAAATATT 300  
 GCCTGGGTTC AGTNTTNATT TCCATTNTN 329

(2) INFORMATION FOR SEQ ID NO: 6201:  
 (i) SEQUENCE CHARACTERISTICS:  
   (A) LENGTH: 150  
   (B) TYPE: nucleic acid  
   (C) STRANDNESS: single  
   (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
   (B) CLONE: HUMGS07362  
 (ix) FEATURE:  
   (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6201:  
 GATCTAGGAT GTGGNTGTGG AGTACTTAGC ATCGGAACCTG CAATNTNAGG AGCAGGGTTG 60  
 TGTGTTGGAT TTAACATAGA TGAAGACGCA TTGGAAATAT TTAATAGGAN TNCAGAAGAG 120  
 TTTGANTTAA CAAATATTGN CATGGTTCAN 150

(2) INFORMATION FOR SEQ ID NO: 6202:  
 (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 142  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07363  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6202:  
 GATCCAGGCG CCTGGGCAGA GCACCTGCTG TCTGCCCTGC ACTTTGAAGG GTTGTCTGG 60  
 GGATTGAAAT NAACCAACTG CCGGCTGAGC GGAGGCTCCC TGGGAGTNAC AAGTTCGTA 120  
 TTAAAATGCT TTCAGTGGNA AA 142

(2) INFORMATION FOR SEQ ID NO: 6203:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 294  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07364  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6203:  
 GATCTATAAA ATTTAGTTT TAAAAAATGT GTTAAGGCTT TGTTTTTGGC CTAACAGGTG 60  
 GTCTATAAAG AAGNAAGTTG TATGAGGTAA TGAGAAGGCT GTGTATCCTG ATGTTGTCGA 120  
 GGAGTGTCTT CTATACCTTC ATTAGAAATA ATTGTNTTTT TACTGCCTTC TAGTCTTCTG 180  
 TTTCTTACT AATATNCTCT CTTGTNTTAT TACAGAAAGT GGNGTATTGC AATATCCTAC 240  
 TATAATTGTN TTGCNCTCTT TGTGTTNATC CCAGTNTNNG TNAGTNTANG CTTN 294

(2) INFORMATION FOR SEQ ID NO: 6204:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 306  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07365  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6204:  
 GATCCCAGCC CGGCCTTTGT GGGACTAAGG TGGCGCTGAG TGGGAGAGCA GCAGGCGATG 60  
 CGCGAAAGGC GGGACTTGGA GGTTCTGGAT GTTCCTGTGG ATAACCTCAA GGAGCACGGN 120  
 ACCTGGGACA TGACTGCCCC CAGCATTCTT TCTGGCGGCA GACAGNGTTT GTNAGTTCGC 180  
 CAACATCCTG CTTTCATGNG AACAGTTTGC TGTTTGCTNA CAGAGCCTCC AGTNGTATAC 240  
 TGAGTTGGTC ACGACCNTNA TTNCTTCGNN CCTACAAACA TNTCCCACTT TTCGNTNTN 300  
 TGGTTN 306

(2) INFORMATION FOR SEQ ID NO: 6205:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 146  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07366

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6205:

GATCTTCAGT AAATATTTTG AAATGAATTC ATTTATGGAA GAATCAAANC TAGGTCAGAT 60  
 TGTCCAAACC AGACTAAGAA ACTGCATAGG GTNTTTTATG AGGTNTTTAA TGA CTCATCA 120  
 GCNCCATTAT ANCTGANATT NCTACN 146

## (2) INFORMATION FOR SEQ ID NO: 6206:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 298

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07367

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6206:

GATCTCACTG CCCAGGCTGG TCTTGAAGTC CTGGCCTCAA GCACTCCTCC TGCCTCACCC 60  
 TCCCCAAGCG CTGAGATATA GACCTGAGCC ACAGCGCCTT GCCAGTTGTT TTATGTTCTT 120  
 TATCCTTTTA CCTGCTTGCC TTCTGTAACC TGGGTTGCAT TAAATTTACT CCTACTNGTG 180  
 AGTAAATGTG AACCATAGCA ATAAATTTAG TCTATCCCCA GAACCTTCAG TAGCAAGGAC 240  
 CNATATTNCT ACGGTATTTG TNTGTGTCCA NANANAAATA AAATTACCTT NAAAAANN 298

## (2) INFORMATION FOR SEQ ID NO: 6207:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 28

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07368

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6207:

GATCATTAAG GATAAACATA TTTTAA 28

## (2) INFORMATION FOR SEQ ID NO: 6208:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 205

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07369

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6208:

GATCCTGTTG GCAANGGGA TGTAGAGCTT CCAGGGTGCA TTGCCCACTG TTCTCATTGC 60  
 ATCCCAGTCC TCCAAGTCAG TCTAGCCTTA CTGTACACTT GACAAGTGCT TACTCAGCAA 120  
 GTCCCAGACC CACGNCCTNT TATCTCCNAA GACTGGNTTT GGCCATGNCC TTCCTCATCA 180  
 GGCCTATGCG CANNANTATN TAGGN 205

## (2) INFORMATION FOR SEQ ID NO: 6209:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 302
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07370

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6209:

```
GATCCATTTA ATATGTTATC CCCACTAATT AATTTTCGTA TATNATTTCC AATATTTGGA 60
AAGCTCTTTA TAGCCATTTG GTATTTCTTA TTACCCACCT CCTATTTTAA ATATTTATCA 120
GTCTAAACTT GTGCAGTGTA GTAAACATGC AAGTTGTTAT GCTTGAGCTG TATTACCATA 180
AGTNGCNTTT TANGTAAACT GGTGNNTTTG GGCCATAGAT GTTTTGTGCTT TTTGTTTGAT 240
TTTNTNTTNC AGGCTAACTG TTNGNGGTAT ACATNTATTT NTCTGTTGTA CAGATTTGAA 300
NN 302
```

## (2) INFORMATION FOR SEQ ID NO: 6210:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 301
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07371

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6210:

```
GATCCCCCAC ACCAGCGCCC AAGAAAGGAC CAGCGTTGCA CAGCCCGGTA GAAAGGGTTT 60
ATTTATGCGC AACGTTTCAC ACAAGCCTTC CTGAAATTCC ACTTTACAGT AAATAAAGCT 120
GTGCGTTTCC CCTTCCCATG CAAACTGCG TATCAATCTA CAACTGTCAT TTAAGTGTGA 180
AAAAATAGNG CGTCTCCCCT TTTGTCATCG TTCTGGTAAC ATTTGGCGTA GCATCTGACA 240
GCACGGAGNT GCTCACTCCT GGACCGGTTA TTTGGTTAAA ACCCAAATG TTAGGTCGGA 300
N 301
```

## (2) INFORMATION FOR SEQ ID NO: 6211:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 111
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07372

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6211:

```
GATCCATTTA ACTATTCATC AGAGGTGCTG TAATTTTAAA TTGTCTCTTG TCTCCTTCAG 60
TTAATTTTCA GAATTAAAAA CATACCATGG GNAAAAAAA CNCNAANCAN N 111
```

## (2) INFORMATION FOR SEQ ID NO: 6212:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 206



(B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07373  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6212:  
 GATCCTGGAA ATNAGATGGG CCTTACTCTG TCGACTAAAT GAATAGCTAT TTTCTTGTCA 60  
 TTTTTTAAAG TGCAACTCTT GCTTCATGCT GCTTAAGTTA CCAGATGAAT GCTGNGAAAT 120  
 AAGTAATCAC AGNCATTTTA ATACCATTTC ATTGCTGTTT TACGCGTGTT CATTACTTAA 180  
 CAAAAAATTA TCTTTTAGCT TTAA 206

## (2) INFORMATION FOR SEQ ID NO: 6213:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 101  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07374  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6213:  
 GATCTAGCCT GCCCTGCCTG CCTGCCCTGG GCGATGAGGT ACGGTGGGGA AGGTGCCTAT 60  
 TTTAGAGAAC TTTGTCACAG TATTAAAGTT CCCAGAACAA A 101

## (2) INFORMATION FOR SEQ ID NO: 6214:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 252  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07375  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6214:  
 GATCTAGAAT GTAATAAAT TGCTTATAAA TGTCAGAGCA TTTTNNAAAG GTACAGTATA 60  
 TGGGGATTGT NTCGTTTTTC CTAGCAGGGG AACCTTAGTT AATANTAAAA TACTACTTAT 120  
 TTGAGTTACT GNTACAGNTT CATTTAAGGC TTGTGTGCAA ATGTGGTCTC ANTCTTTTTT 180  
 CCCTCCATGA TTTTCCTATG TGCTTCCTCT GGCATTCACT GNGGTTTTGG TAAANTAANT 240  
 TGCCNNTTAA NN 252

## (2) INFORMATION FOR SEQ ID NO: 6215:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 257  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07376  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6215:

GATCAGGAGT ACCTCCTCA AGAGTCGAGG GNGGTAGATT TCTACACGCA GAGGAGGTGC 60  
 TGACTCCTCA GGGCAGGCCA GCAGTNGMNT GTTGCTTTTN TAAGGGAGGG CCACTAAGAA 120  
 AGTTAGTGGA TTGCAAAGTT GGTTCCTGG TGGNAGTTAG ANCAGACCAA CATTTTATGC 180  
 CATAACTTTA NGAGTTCCAT AGGTGGCGGC GCAGTTCTTN CGNATCAATG TNTAACTTTG 240  
 NGGGGGGTGT TCATTTN 257

## (2) INFORMATION FOR SEQ ID NO: 6216:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 189  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07377

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6216:

GATCAGACAT AACTTAGCA TCTTAATGGA AGAAAAATGA GGGGAACCTC AATTATGATT 60  
 TATTAAAGAC AATTTCTATT ACACCCTCCT TTATGACAAG TGACATTTTA GATGTAAAAG 120  
 TAAANCTTT ACCATGCCTT TTTTTTTTTT NGTGGGCCTA CCTTNGGGGC NTNAANCCCN 180  
 GGGGNCCN 189

## (2) INFORMATION FOR SEQ ID NO: 6217:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 272  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07378

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6217:

GATCTCGCAA TGTCTGCCTT AATATTTTAC AATTAAACCT TTCATATTTA TTATAATTTG 60  
 GTAATATTCA TTAATTTTCC TGTCTTTTAA AAGTCTTGAT AGATTTGTCA AAGTATATGT 120  
 NCTTTTCCCT ATGCTGGTTT AGAAGTNCGA NATATCACTT CTAATAGTAA TTATGCTCAA 180  
 NTAGGTACAC ATATACATAC ATNTTCTCT CNCNCTTTAT ATACTTNTGT GCAATTGGCA 240  
 CTTTGTGACGT ATGTCATANN NNTGTCATNC CN 272

## (2) INFORMATION FOR SEQ ID NO: 6218:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 74  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07379

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6218:

GATCCTCGGC CTCCCAAGT GCTGGGATTA TAGGCATGAG CCACCGTGCC CAGNCTAATT 60  
 TCTAATTAAT TAAA 74

## (2) INFORMATION FOR SEQ ID NO: 6219:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 303
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07380

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6219:

```
GATCTCGTCT GCTCACCTTA GCTTTCTGCC TTGGCAGCAC GGGCTGCGGA AGAAAGCACG 60
CTGGGCCAGG AGGCAGGGGT GCCCAAGCCA CAGGGAGCCC CTGGGGAAGC CTGCTCCATT 120
CTTCTGGTGA CCTTGGCGCT CCTTCACTCA TCTCCCCTGC CCCCTCAGGA ACTGGTGGCC 180
CAGCTTCCAC ACCNNCACCT CCCAGTCTCT AGNCTATCCA TCTGTCTGTG TATGGCCTGG 240
AGTCACTNCT TCCTCANGCC CCCAGGGNAA NGTGTGCTCA AAATAAAAC CAGNGGNCCTG 300
AAA 303
```

## (2) INFORMATION FOR SEQ ID NO: 6220:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 205
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07381

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6220:

```
GATCCCCCTTT CCCACATCCG TGCTGTGTCA TTGTTGCTCT GCTTCCTTTC AATGTGTCAG 60
TGCTTGGGGG GAGGGGAGGA GCACCCCTC AGCCCCCTG AACCTGACCA AAAGCCATGG 120
CTGTTGCTCC NNNCTTTGTA TGATGCAAT GCTGAAATGT ACAAATCAA CCATGACAAC 180
AANGAAAAAG GCCTTGTTACA GCAA 205
```

## (2) INFORMATION FOR SEQ ID NO: 6221:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 110
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07382

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6221:

```
GATCATAAAA ATGAAGGAAA ATGCCAAGC ATATCCCCAA CCCCTCACCC CACAACCACC 60
ACCACCACAC ATAANCAAGT TGCTGACATA NNAGGGGGAC CTTTTTNANN 110
```

## (2) INFORMATION FOR SEQ ID NO: 6222:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 248
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07383  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6222:  
 GATCGCATCT CATTGTTAAC TCTTTACTGA TATGTTTGT AATACAGAAG TGAAATGTGG 60  
 ACATAAAATA GTTACGCTAT TTGGTTAATG GTACTAGACA ACATGTAATT AATGACATTC 120  
 AAAAATTTAT GGCTAGTGAT ATATATAANG TAAAATTTTC TTTGCAGTAA AATATGCCCT 180  
 TNATTATNGN CGGGNGGCTA TANGGNCCA ACAGTTTGTG TGAAANTAGC TCCNAATCAT 240  
 ATCTNTNN 248

(2) INFORMATION FOR SEQ ID NO: 6223:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 145  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07384  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6223:  
 GATCCCTTTA CACTCTTCAA AAGTGNGAAC CCCAAAGAGT TTTTCATGTAT GTGGGTAA 60  
 TCTATTGATA TTTTCTGTGA GAATTAAAA ATTATGTAA AANAATAAGA NGATGACTA 120  
 TTTTNCAAAA CAANANATGA GNTGN 145

(2) INFORMATION FOR SEQ ID NO: 6224:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 129  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07385  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6224:  
 GATCTGCTTG GTGAAGAGTT CAGGAAAGTA TATCAACAAA GGNGTGAANT TTGTGAAGAG 60  
 AAATNNTATC ATCAAAATTG GGTAAGCAT AGNTTTTTTG TATGTTACCA CTAGATGTCA 120  
 GCATANCTN 129

(2) INFORMATION FOR SEQ ID NO: 6225:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 212  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07386  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6225:  
 GATCAGAAAA CATTGATTTA TATTTTAAAA TAGGATATTG GAGCCATTGT CTTAGATAAT 60  
 TTTCAAGGCA AGANCAAGCC TGCAATAAAT ANTGAGNCTT TGACATTCCT TGGCGCGGAC 120

GATGTCTCCT GCCCTANTAT GACTGTCACT CAGCAATTC AATTTTATGN NTACTTGATT 180  
TAAANCGGGA GGCTANACTT GNTCTGAAAN GN 212

(2) INFORMATION FOR SEQ ID NO: 6226:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 235
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07387

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6226:

GATCTTACTG AAGATGATGT TCCAGCAGCA GCGACTTAGC CCCAGGAGCC CAGTTTCAAT 60  
GGCCTTGCTG TGTGGTGTTC CAAGTGCATT TAAAATGTGT GACACAGNAA CGGCACACTC 120  
TTNCACATGC TTTTGNAGTA TTATAANNCA CTTTATTACA AATTTGTCTT NGCTATTAGC 180  
AAATANAAC TATTATCATT CTTTATTAAAC CCACCTNGGC CTTTNNNAAN CCTCN 235

(2) INFORMATION FOR SEQ ID NO: 6227:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 290
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07388

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6227:

GATCTCACTC TTNCCCAAGC TGGAGTGCCG TGGCAAATC ACAGCTCACT GCAGCCTTGA 60  
CCTCCTAGGC TCAAGCAATC CTCCTACCTC AGCCTCCCAA GTTGCTGGGC CTGTAGGTGG 120  
ACACCANCAT GCCCTGTTGA TTTTNAATTT TTTTATATAG AGTTGAGGTC TCGGTATGTT 180  
GCCAACCTAG TCTCAAATC CTNGGCTCAC GGCTGTAATC CCCAGCTCTC AGGGAGGNTA 240  
AGCGGCGGNN GGNTAGCTTA AGCCNAGGAN TNCGAAGNCC TGNCTTNGGN 290

(2) INFORMATION FOR SEQ ID NO: 6228:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 249
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07389

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6228:

GATCCATGGG GCCCAGGNT AGAGGGCATC CGAGGGGCTG GGCCTTGGCC ACAGCCTCTT 60  
GGATGATGTC CTTGCTCCAC CACGCAGGCC CTTGCTTCTC CCATCAACGA GTCTTGGCCC 120  
AGGGGACACT GACCCCTCCN CAGGGAGGAG AGAGGAGTTC CTTNCCTTTA AACGAGGGCT 180  
TCCACGACCT CTAAGGGGTG GCGNGGAAGG GAGGAGGATG AGAAGATGNA GATTAAATAA 240  
AGGTATGTN 249

(2) INFORMATION FOR SEQ ID NO: 6229:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 125  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07390  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6229:  
 GATCTATCTC AGGGCTTGTT GTAAGAATGA AATGAAGTAT AAAGCCATGT AGAGCTTGTA 60  
 GAATATGCCT GGCACCTTGT AAGACCTTAA TANNTGTTAA CTATCTAANC ACANAACAAN 120  
 CCNCN 125

(2) INFORMATION FOR SEQ ID NO: 6230:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 71  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07391  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6230:  
 GATCCTAGTG CTCCTGTCTG GTCAGGGCCT ATCTTTATGT GTTCGTAA CTTTAAACAA 60  
 TGAGNATTAA A 71

(2) INFORMATION FOR SEQ ID NO: 6231:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 182  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07392  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6231:  
 GATCTGAAAA GTTATTAAGT TCAACTCCAC AGAGGTTTCCT AGGAGAATGT TAACAGTCCA 60  
 GACCTTTTTC ACTACATCAA CCACGGATGA TTGGCATATA AAATCCTACT TAACCTTTAC 120  
 ATAAC TGCAA TACCAGGAAA CAAATATGTC AATAAAAGGA AACATCATTC AATTTTGGGA 180  
 AA 182

(2) INFORMATION FOR SEQ ID NO: 6232:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 233  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07393  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6232:

GATCCAAAAA ACCATTTCAGG CCAAGTNACC CTGACATGTG ACATCTACCT CCCGACCTAC 60  
 CACCCCACTG GCTGGTTCCA GAACGTCTCT CACCTAGACC TTGCCTCCCC TCCTCTCCTG 120  
 CCCAGCTCTG ACCCTGATGN TTAATAAACG CAGCGACGTG AGGGTCCTGC TTATCCCTGG 180  
 TNNGGNNCA GNTCNATCCT TGCATCANTG GGGAGGACGT GATGNGTGAG GAN 233

## (2) INFORMATION FOR SEQ ID NO: 6233:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 158  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07394

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6233:

GATCAGCCTG TGCCACACTT CGCTCTTGAG GAGCTCAACG GTCTGGCAGG GCAGCAGGAG 60  
 GCTTTCTGGG CTCTGGNCTC CACGGATGCG TGGGCAGNGG AATGTGGGCT ATGTAGTCAT 120  
 AATAANTTAG GNCACAGAAA AAAAAANAA AAAANNCN 158

## (2) INFORMATION FOR SEQ ID NO: 6234:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 51  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07395

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6234:

GATCTCTTTT CATTTGTCAA CCTTTTCAGT AAAGCCCTCT GTTACATCAA A 51

## (2) INFORMATION FOR SEQ ID NO: 6235:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 280  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07396

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6235:

GATCAGCGAG AAGGACAAGA AGAANNTTCT GGACAAGTGT CAAGAGGTCA TCTCGTGGCT 60  
 GGACGCCAAC ACCTTGCCG NGAGGACGA GTTTACGCAC AAGAGGAAGG AGCTGGAGCA 120  
 GGTGTGTAAC CCCATCATCA GCGGACTGTA CCAGGGTGCC GNTGGTCCCG GGCCTGGCGG 180  
 CTTCGGGGCT CAGGGTCCCA AGGGNGGGTC TGGGTCAGNC CCTNCCATTG AAGGAGGTGG 240  
 NTTAGGGGNC TTTGTTCTTT TNGTATGTTT GTCTTTGNGN 280

## (2) INFORMATION FOR SEQ ID NO: 6236:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 199

- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS07397
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6236:

```
GATCTAAATA CTGTGTTAAA ATATAGAAAA ACGGAGACTC TNATAAGGTT TTTNACCTCT 60
ACACTTGAAA GTGAGCTCTT ACAAGAAACT AATCAGTGTT TCGTTATTCC ATATCAGTGG 120
CTTTTACTGT CAACGNTTGT GTAAGCTNAC TTATCTGGCA AACTTTTNCT TTCCAGAANT 180
ACTATCTATN TTACTNTNN 199
```

(2) INFORMATION FOR SEQ ID NO: 6237:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 279
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS07398
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6237:

```
GATCCACCCA CCTCGGCCTC CCAGAGTGCT GGAATTACAG NCGTGAGCAC CGCGCCTGGC 60
CAAGNAAAAA TTATTAGAAC AAGTGAGGCA TCACACTCCT CTGCCATTCA GTCAAAAGTA 120
NGCACCAATT TATTAACACA AACATTACAT AATACATGAT ACAGGCGCAA TCTCGCTACT 180
GCTAGCACTA CGNNAATGTT GTTCTTGCAC TATAACATTA AACTGTTAAA TACTGACAGT 240
GAAATGCACC NATANNGGNN ACCTGTCATC ACNGGGNNN 279
```

(2) INFORMATION FOR SEQ ID NO: 6238:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 21
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS07399
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6238:

```
GATCCAAAAA CTAACCTCAA A
```

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(2) INFORMATION FOR SEQ ID NO: 6239:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 174
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS07400
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6239:



GATCCAAGTA CTCTCTCTCC TAAAGACACC ACCTTCCTGC CAGCTGTTTG CCCTTAGGCC 60  
 AGTACACAGA ATTAAAGTGG GGGAGATGGC AGACGCTTTC TGGGACCTGC CCAAGATATG 120  
 TATTCTCTGA CACTCTTATT TGGTCATAAA ACAATAAATG GTGTCAATT CAAA 174

(2) INFORMATION FOR SEQ ID NO: 6240:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 294
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07401

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6240:

GATCTTGAAG AGACCGCTGG CAGCACCAGT ATTCCCAAGA GGAAGAAGTC TACACCCAAG 60  
 GAGGAAACAG TTAATGACCC TGAGGAAACA GGCCACAGAN GTGGCTCCAA GAAAAAGAGG 120  
 AAATTCTCCA AAGAGGAGCC GGTCAGCAGT GGGCCTGAAG CGGCGGTTGG CAAGAGCANC 180  
 TCCAAGAAGA TGCAANAGTT CCATAAAGCA TCCCNAGGAN GNTTAAGAAT GCAAATGGAC 240  
 CATTCTCTTG GNNGGTTNGG NCATACCCAT NAGCCCNAGG TGACATTTC CNTN 294

(2) INFORMATION FOR SEQ ID NO: 6241:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 295
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07402

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6241:

GATCTCGCCC TTACCCCGGG GTCTGGTGTA TGCTGTGCTT TCCTCAGCAG TATGGCTCTG 60  
 ACATCTCTTA GATGTCCCAA CTTAGCTGT TGGGAGATGG TGATATTTTC AACCTACTT 120  
 CCTAACATC TGTCTGGGGT TCCTTTAGTC TTGAATGTCT TATGCTCAAT TATTTGGTGT 180  
 TGAGCCTCTC TTCCACAAGC GTCCTCCAT GTTTGGNTAG CAGTTGAAGN GGTGTGTGGG 240  
 TGGGCTNTTG GGNGTGAGGA TGGAGTNTTA AGTGCCNACT NNCNNCTNNN ACCNN 295

(2) INFORMATION FOR SEQ ID NO: 6242:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 201
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07403

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6242:

GATCTAATCC CTTCAAGGAA GTGATAACAC TGGGAGTGGT AACAAGAGGA GCAGGGAAGC 60  
 AAGGGCCAGC CCCTGGTTCT CCATCCCNAT GTGTTNGAGG GTGGGACCAG NTGGACCTGG 120  
 TCCAGGCCAG GCCTCATTCC TCCTGGNCCN GGCAGGGTCA GAGGGNGGAG GGGCNTGGTC 180  
 CAGGNATGGG TCCNTTCCAN N 201

## (2) INFORMATION FOR SEQ ID NO: 6243:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 26
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07404

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6243:

GATCTTGGCA GTTGATAAAA CGTAAA

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## (2) INFORMATION FOR SEQ ID NO: 6244:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 324
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07405

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6244:

GATCGNTGCC TGGTTTGTCT TCTCTGTGTC CTGGAGCAAA GCCAGTTCCT AAAACTAAAA 60  
 CTCCATTCTA GTCTTGGGAA GAAAAGTTTC TACTCAGAAC TGGGGAAGGA GTGGAACTTA 120  
 TGA CTG GGC CTCTAGGCTG TCTCTGTCCC CTCAGCTCCC CGACATGCAT TTACTCTCTG 180  
 CCGTGGGTCT GCAGTCGCTG CAACCTACCC TCTCTCTGCC TCAGCCTTAC ACCCAAGCAG 240  
 TAGGTCTGTG CTCTCCCTGT CTCTAGGTCG NTGAGAGAGG TGCTTTTNTT CATAAACCT 300  
 TTGGGGTTTG GGATTCCCC AGAN 324

## (2) INFORMATION FOR SEQ ID NO: 6245:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 256
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07406

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6245:

GATCCATTCC GGCGCCTTCC TCTCCCAGTC ACCCAGAGGG CCCCACCCG GCGGNCCTT 60  
 TCTTCCTCAA ATGTCCTCGG CTCTATACCG TGNCTGGGTC TTTTNTCTNT CTCTCTGCCT 120  
 GGAAGATTCC TTCTTTNCCC TTTTGTCTTG CCCACTACTG TTTACCCTTC AAGTTTCAAG 180  
 GTCATGTCAC TGTCTNAGAG AGGTTTTCCT GTGNTNGACC TGTTTTTNTAT CAGGAAGGCT 240  
 TGCTNNTTTC CATNAN 256

## (2) INFORMATION FOR SEQ ID NO: 6246:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 37
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07407

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6246:  
 GATCATTAATA CCTGGCTTGA GTCTCTGTTC TGGCAAA 37

(2) INFORMATION FOR SEQ ID NO: 6247:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 152  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07408

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6247:  
 GATCAAGNTT GNTCTTCTGT GATATATGGG ATATNATGTT TTAAAGACCA TCTTGAATA 60  
 CAATTAGAGA ACTTAGTATT TTGATGTACT AAGACCTATT TTAAGTTTAA TATTCTACTT 120  
 TGCAAAANCT TTAATTAANG ATGTTATTAA AA 152

(2) INFORMATION FOR SEQ ID NO: 6248:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 213  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07409

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6248:  
 GATCCTGCAT TAAGAAATTC AAAAATCAGT TAATCATCGT TACATGTTGT AAAAGTTGGA 60  
 TACTGACAGT CTCTAATAGT TTATCATCCA ATNGCANGTA ACCTACAATT TTAGGCATAA 120  
 ACGTTGATGT GTATAANCAAT GNATACAACG CTANTGGCTG GTCACAGTGT TTTCNCAAAC 180  
 TACAGNTCAC ACCANGTNTT TCTCCTNTTC CTN 213

(2) INFORMATION FOR SEQ ID NO: 6249:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 274  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07410

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6249:  
 GATCTCCTCT TAAGCGGAAA AGAGATTGAC CTTCTAGCAG AGGCAAAGAA TGGAGTCTTC 60  
 TGGGGGCAGC TGCAAAGCGT TCTCCCTAGG ACAGATGGAG CCTCCCTTTC CTCATCTACT 120  
 CTGTGGGTGG TTTCAGGGCC CACGAGTCAA CATNAGGAGT TGTGCTGGTG GTATGTGTGT 180  
 TGGAGGCTGG GCTGGCTGAT TCACAGTGAC GAGGATGTCA CTAATANCAN GTATTGCGAN 240  
 TGNTGATACC TAATAANAGN CTTTTTTTCC CAAA 274

## (2) INFORMATION FOR SEQ ID NO: 6250:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 216
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07411

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6250:

```
GATCACCATG CTTGAATGTC CTCTACTGCT GATTCTAACA TCCGTGTCAG TTTTGGACCG 60
GTTTCAGTAG ATGGATTTTN CTCCNNGNNA TGGGCCATAC TTTCCTGCAT TCTTTGCATG 120
CCTCATAATC TTTGATTGGA TGCCAGACAT TGTAATTTT ACCTTGTTGG GTATTGGATA 180
TTTTTGTATT CCTATAAATA TNCTTGNGCT TTGAAA 216
```

## (2) INFORMATION FOR SEQ ID NO: 6251:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 319
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07412

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6251:

```
GATCTAATTT TGTATGTGGG AATCTTGCCCT TGCCCTGATT TCCAGACCCA TAGGCAGGCT 60
TGCAGGCTGT AGCTGGGGAA GACCCACGC TTATNCTGGT GCCCTGAGCA AGCCCTCCTG 120
CTCCACTATT AGGCAGAAGC ACCTGTTCTG CCACAGGAGG CGCTGTCTTT TGCTGGCAGA 180
GCTCAGTTTC CCTTAAGGGG AAGTTCCTTA GGATTAAAGG CCTCATGACT ATCTCAAAC 240
CCATGTTTGT TTGCCAATAA AGNAAATAAA TAACTGTAA AAAANNAANN AACNACCANN 300
NAAAAAACAC NAACANCAN 319
```

## (2) INFORMATION FOR SEQ ID NO: 6252:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 111
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07413

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6252:

```
GATCTACTGT TTGCATGTAA GAGACCAGGN TATGTAATC TTATATTTTA AGTGATACA 60
TATTGTGTAT ATAACATATG GATATTAAAA ATGGGGANTT GCACATTTAA A 111
```

## (2) INFORMATION FOR SEQ ID NO: 6253:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 108
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single

(D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07414  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6253:  
 GATCCCAAGGA ACTGTGGGCA CCCATTTTNT GTGTCTCCCA GCCNATTTC ACTCCTAGTT 60  
 TGTCATGGNT ANTTTTTGTT CTTCCCTGTG TGAGGGGNGC CATCAACN 108

(2) INFORMATION FOR SEQ ID NO: 6254:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 317  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07415  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6254:  
 GATCACAACC ATCAGCATCA CGGCCACAGC AGCCAGTGTT GGGGCTGCTG GCATCCCCCA 60  
 GGCGGGTCTG GTCACCATGG TCATTGTGCT TACGTCGGTC GGCTTGCCCA CGGAAGACAT 120  
 CACGCTCATC ATTGCCGTGG ACTGGTTCCT TGACCGGCTT CGCACAATGA CCAACGTACT 180  
 GGGGGACTCA ATTGGNGCGG CCGTCATNGA GCACTTGTCT CAGCGGGNGT GGAAGCTTCA 240  
 GGAAGCTGAG CTTACCCTAC ACAGNCTGGG GAAACCCNTA CAAGTCCCTT AATGGNACAG 300  
 GACGCAGGGG AGCATAN 317

(2) INFORMATION FOR SEQ ID NO: 6255:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 218  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07416  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6255:  
 GATCGAGACC ATCCTGGCTA ACACGGTGCT GGCGGAGATA AACTCCCTT GAAGCAGTGG 60  
 AGTACAATCA AACATCTTGG CTGCTCCTGA AACCNGGTCC CACGNATTTT AGTCCGGCTA 120  
 AGANCGAAGA GCTGGTAAAC CANTAANTTG GGTGGAGGCC GAGAGCTCGG GGCCGCGAGC 180  
 AAGCCTCCGA CGANNTGGTC CCCTGGACCN NCNGGTTN 218

(2) INFORMATION FOR SEQ ID NO: 6256:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 194  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07417  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6256:

GATCTNACTC ACAGAGGGGAA GAACTTATAA TTCTTCACAG GTCACATAGA AGCATGANAA 60  
 TTTGGGTTCA AGCAAATAAA TTCTAAATCA GAATCCATAC ATAAAGTGTT TGCAATGTCC 120  
 AGTTATATCT CCATGATATT TNCTTTGTGG AAGTTGATTG TCCTTCCTTA CAATAAATTG 180  
 CTTGANTTGT CAAA 194

## (2) INFORMATION FOR SEQ ID NO: 6257:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 345
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07418

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6257:

GATCCTGTGT ATTTCCCTGA GTCTTCTAAC ATATGAAAAT TCATATCTAA ATCAACAAGT 60  
 GACTGTAAATC TGGTACTATA AATACTAAAT AAACACTTCT TCATAACACT GTACCAATTC 120  
 AGCTTTTAAAT TTTNATTACT TTGCTTTTCTT GTCCTTTTGCC AACTCTTAAC CTAGTTAATC 180  
 CTAGTNCTGT TGACATTGGA CCAGGCTCAG TAAATAANCG AATGGATTTT CAGCCTTTTT 240  
 TTCCCATCTG TNCCTGCTTT TANGTCCTCT GAATCTGCTT CTTTGCTTNC TGCTGCTTTA 300  
 ATTTTANCAAG TGNTTTTNGT CAAAACATAG GNTNCAGGN CTNNN 345

## (2) INFORMATION FOR SEQ ID NO: 6258:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 167
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07419

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6258:

GATCTGGGTT CTAGAGGGCA TGTGATGACT GTAAATGTTT ACTGGGTGGG TAGGGAGTGG 60  
 TATCCAGTGT TCAAGTGCAG AAATCTTTGG CTTNGCTACC AGTTCCATAT GATGAGAAAT 120  
 AAACGTTTCG TGAGGTTTTG TTTCAATAAA AGANNNNNAA AANNTCN 167

## (2) INFORMATION FOR SEQ ID NO: 6259:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 130
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07420

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6259:

GATCCACACT TTAAAGAAA TTCCATAAAT GTATATTTTG TATTATGTAT TATTTCTGG 60  
 TCCNAAGAAA ATATGTGAAT TCAGTTCTAA CTTNNGGANT GTACTGTTTG TTTTCANGTT 120  
 CATTGNAAAN 130

## (2) INFORMATION FOR SEQ ID NO: 6260:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 110  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07421  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6260:  
 GATCCGAGAT GGCACCATTG TACTCCAGCC TGGGCAACAA GAGCGAACT CCGTCTCCAG 60  
 ACAAAACAAAC AAANCAANAA CAAGTGTCCC TATNNGNATG GGTGTGTTTN 110

(2) INFORMATION FOR SEQ ID NO: 6261:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 310  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07422  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6261:  
 GATCTGGCTG TCTAGAGGGA TTCTACGACT GCGTGCTGCC GCCTCCCCAA GAGGCATTCA 60  
 GGTTATTGGA GAACTAATCT CATCTCAAGG GGCCAGNCAC CAAGTCCCAA AGCCTACAGA 120  
 CCTCTTTCCG CCAGGCCCTG AAACCTGGCC CCGTGCCAGC AGGATGACAA GCCCCAGGGC 180  
 GNTCCTGATG AATATGGCTT GGAGATGNTG TACAANTTTT TATTNCCCTN TGGNTTTTGA 240  
 GGNATGAAAT GATTTGCACT TTTGAAAACC TGTTAACCGT AGGCCNCTTN GGNCANTGAN 300  
 GNNTGGAAGN 310

(2) INFORMATION FOR SEQ ID NO: 6262:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 129  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07423  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6262:  
 GATCCACTCG GNCAACCCAA CAGTTTTACC AACCACCCCG GGCTCGGAAC TAATAGGNAA 60  
 AGTAGACTCT TTGTGAAGAA ACGAGCCANT NNCTGGAACA CCCTGGTGGA AACCTGTTGA 120  
 CANGCCCTN 129

(2) INFORMATION FOR SEQ ID NO: 6263:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 157  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07424

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6263:

GATCACTTGA ATGTTAGGNT TCATAGNACT ATACTAATCT TCTCACAAAA GGTCTATAAA 60  
 ATACAGTCGT TGAAAAAAT TTTGTATCAA ANTGGGGNGG CAAATTNGAA GCTTCTCCTT 120  
 AANCTGTATT GATACTGACT TGAATTCTTT TCTANAN 157

## (2) INFORMATION FOR SEQ ID NO: 6264:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 171  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07425

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6264:

GATCTCCTTC TTTAGCTCAA GGTTGCTGCA ANTTGGAGCT GAGCTGTCAG TGGAACGNGT 60  
 CCTGGAAATN ATTAAGCAAG GCGTCGTTGC GCTGCCCAAN GACAGACTGA AGAAATTTCC 120  
 AGANTTGAAA TTCAAATATG TGGAAGNGGA GCAGCCCGNG GNGTTTTTAT N 171

## (2) INFORMATION FOR SEQ ID NO: 6265:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 174  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07426

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6265:

GATCCTACAT TTACAGACAG TTTTGTGATA ACCCTTTGCA TTGCAGCACC TAGTACAATT 60  
 CCTTGGAAC AGCGTGGCTC AATAAATTTT TATTGAATGA ATAAATGTGG GCCCAGAAGC 120  
 GTGCTAGANG AGTGCCTTTC TGGGCTACTN AAAAAANNA AANACNAAN AANN 174

## (2) INFORMATION FOR SEQ ID NO: 6266:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 123  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07427

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6266:

GATCAAAGAC TCCCTGGAGC GAGAAAACAG TTAAGTCCAG AAGCAGAATG GAAGAGCCAA 60  
 AAAGTACACA AAATGGACGC CATAANTTCT GAAATAAAAG TGTATGATGT GTTCTGAGTC 120  
 AAA 123

## (2) INFORMATION FOR SEQ ID NO: 6267:

## (i) SEQUENCE CHARACTERISTICS:



(A) LENGTH: 174  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07429  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6267:  
 GATCTGGGCC TCAAATACC ATAGTAGCTG CTTGATAAAA TTCTAAAAAT ATCTGGTTCT 60  
 CTATTATGTA AACACTATTA CAGTCACCAG TGTGTGAAGA CTCTTGAGTC TGGTTCTCAT 120  
 ATCAGAGTCA TCATTTTCT TCCNGTGGA TAAANTGCCT TGTGGNCTTC CAAA 174

(2) INFORMATION FOR SEQ ID NO: 6268:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 163  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07430  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6268:  
 GATCTTTTCA CTGGCTGACT CTCCCATATC TGCAAGAGAT TCTGCAGGAA CTGGGTGTGC 60  
 ACACGGTGTT GTAGCCAGTT CAGGTACTGN ATATTTAGGA TTTGGTGNCG TTCACTGTAT 120  
 TGCTATATTT TTGTAGCTAA ATAAANTCA ATAANTTGTT AAA 163

(2) INFORMATION FOR SEQ ID NO: 6269:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 192  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07431  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6269:  
 GATCTCCAGT ACTTTGTACA ATGTATAGTA TATTAAATAC ATTTATGTGT AATTTTGTGT 60  
 GTATTTNTAT ATGGTATAAT TAAATNATT ACATTTATGT GATTGTAATT CACAAAANGT 120  
 ACTACTTACT ATATNCTGTA GNGTGTGTTG TGAATGTNTT TACCNGTGTT TGAGCATTAT 180  
 GGNGTAGGGN TN 192

(2) INFORMATION FOR SEQ ID NO: 6270:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 85  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07432  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6270:  
 GATCTTCTTT TGTAATGTTT TTCATGTTAC TGCCTAGGGC GGTGCTGAGC ACACAGCAAG 60  
 TTTAATAAAC TTGACTGAAT TCAAA 85

(2) INFORMATION FOR SEQ ID NO: 6271:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 284  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07433

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6271:

GATCCTAGTG AGGGATTGAT GAATGTTCTA AAGAAAATTT ATGAAGATGG AGACGATGAT 60  
 ATGAAGCGAA CCATTAATAA AGCCTGGGTG GAATCAAGAG AGAAGCAAGC CAAAGGAGAC 120  
 ACGGAATTTT GAGACTTTAA AGTCGTTTTG GGAAGTGTGA TGTGATGTGG AAATACTGAT 180  
 GTTTCCAGTA AGGGAATATT GGTGAGCTGC ATATATAAAT TTGACAGATA GCTATTTACA 240  
 TAGCCTTCTA AGTAAAGGCA ATGAATTCTC CATTTCTTAC TGGN 284

(2) INFORMATION FOR SEQ ID NO: 6272:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 211  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07434

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6272:

GATCAGTATT AACATCCAGG TTTTGATTGT TGTANTATGG TTACCTGGTA GATTACCTTT 60  
 GTATATAGGN AATAGACACT GGAATAGTAA GGNGTAGTGG GTCAAGATGT CTGCAACTTA 120  
 TTGTTTCAGAA TCACTCACAA NTGGGNAATC TGATATAAGG NCAAAANTGGG AGCACTGTGG 180  
 CCTNTTTTTN CAACTTTTGT GTACATCTGN N 211

(2) INFORMATION FOR SEQ ID NO: 6273:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 170  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07435

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6273:

GATCTCATGA AGTCTTCCTT GGCCCAACCA GGCAGATGCC CCGGGCTCCA GTGGGGGGGAG 60  
 GGGTCTGGGG TCTGGTCCGG GTTCCCNAAAT TTCTCTTTNN CCCANATCNC TATTTCTACG 120  
 CAGTGCGNAT AAAATTTGGA NTCGACTAAA ACCCTTGGTG CCCNGAAAN 170

(2) INFORMATION FOR SEQ ID NO: 6274:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 301  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07436  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6274:  
 GATCTGCCCC CCTCGGCCTC CCAAAGTGCT GGGATTACAG ACGTGTGCCA CTGNGCTCGG 60  
 CCTCAGATTC CATATTTNAA CACCAGCTGA TTGAGAGAAG GGGAATNAGA AGAGCTGGAT 120  
 GAGTTTAAAT AACTTTNATT GTTCAGATTC CTGAACAGGN GTTGGGATAA TGGCCATCTT 180  
 TNCTTTCCTA TCCTTCCCCC CCTCACTGTG AAAAATAACA GTCCACCCCA AGTCATACAC 240  
 TGGACCCAGT GCCTGCGGGG ACAGGNCTGT GGGTTTCTTG GTCACACCTG TGTTGGTGNT 300  
 N 301

(2) INFORMATION FOR SEQ ID NO: 6275:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 198  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07437  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6275:  
 GATCCAAAAA ACCATTCTGG CCAAGNAACC CTGAAANGNA ACATCTACCT CCCGACCTAC 60  
 CACCCCACTG GCTGGTTCCA GAACGTCTCT NACCTAGACC TTGCCTCCCC TCCTCTCCTG 120  
 CCCAGNTCTG ACCCTGATGC TTAATAAACG NAGCGACGTG AGGGTCCTGA TTCTCCCTGG 180  
 TTTTNGGGGG GNTCCATN 198

(2) INFORMATION FOR SEQ ID NO: 6276:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 102  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07438  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6276:  
 GATCTCTACT CAAAGATGTC TTGCAGTTTA TGAAGTGAGA TGTAAGTTCA TGACTAACAT 60  
 GATGACATCG TTATTAACTA CATAAACTTT ATAAAGCTTA AA 102

(2) INFORMATION FOR SEQ ID NO: 6277:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 318  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07439

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6277:

GATCTTAATA CCTAATTTCA TCATTCTGA AAATGTACTG TTTTAGAATG TATTACAATA 60  
 TCAATGTGAA TATCTTGAAT CCTGTTACAA ATCCTGCACT GTATTAAACA TGTAATTTAA 120  
 TTGTTTGTCT GATTAGCCAA TCTCACCACC CAAATGGGGA GGTATACATG TTTGANGAAC 180  
 TGTGTAAGTC AGTAATTGAT TTGTNCTGAT GTTGTAAGTC ANTAGANGTG TTTTGGGAAGG 240  
 NAGCATGGTG TGTGAGGCAG TGTCTGTCCT TTTGTGCCAG CTCTGTATGN TGTTTGTNGG 300  
 CCNTGTTTGT AGGCCTGN 318

## (2) INFORMATION FOR SEQ ID NO: 6278:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 321  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07440

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6278:

GATCTCGCCA ACAGCTAGCT GCTTAGGAGT ACCCCCACGA TACGCACAGC ACACCACTGT 60  
 CCCTTCACTG CACTTTCTTC CTGCCTTAGG TAGTTGGGCT TGCCACCCCT AGTTTGCTTT 120  
 TGTAGTGGTT TGGCAAGGTT AGAAGGCCTC GGCCTCTCTG TNATGCTGGG AAGTGCCTAC 180  
 TCTCTGGGCC ACTGCTGCAG AGGCCGTGGC ACTTGTNATG GGTTTGAAG ACCCAGCCAT 240  
 CTGCAGCAGA GGCAGCCTAT TCCATTGCA AGGNGNGGAN TGAACGGAGT AATTATTCTA 300  
 CTNTTCTTTT TACATAAATA N 321

## (2) INFORMATION FOR SEQ ID NO: 6279:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 290  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07441

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6279:

GATCCTGCAC GTCCGCAAGC CGGAGAAATA CCAGCTGCAC CTCCACGAGA GCTGCGTGCT 60  
 GTCCCTGAAG TTTGCCTCCT GCGGACGGTG GTTTGTAAGC ACCGGGAAGG ACAACCTGCT 120  
 CAACGCCTGG AGGACGCCGT ACGGGGCCAG CATTTTCCAG TCCAAGGAGT CGTCCTCAGT 180  
 CCTGAGTTGT GACATCTNCA GAAATAACAA ATACATTGTN ACAGGCTNGG GGGCCAAGNA 240  
 GGGCACCGTG TATGNGNTNG TNTNCTTNGG CCATTNNCCC NTTCTGTNN 290

## (2) INFORMATION FOR SEQ ID NO: 6280:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 130  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07442

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6280:

GATCCAGTCT NTGGTATCAT GCTAGTNCCTG ACAGGGCCTT GATAGTCTAG AGTTGGAAAA 60  
GATGGTAAGC TTTTGTNAGN GTTTTAACAT TTNCTTGATG AAACAATAAA AAGAGGTAAG 120  
CTTTTNCCTN 130

(2) INFORMATION FOR SEQ ID NO: 6281:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 192  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07443

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6281:

GATCCAGTTT TGTTTGGGAC CAAAAACCAG TATTGTACAA AGTATTAAGC ATATATTTTN 60  
ATATTTACTA AAATNGACTG TGGTGACTTT GGATAATAAG NAAAANTTTA ATATTAAANC 120  
CATGTTTATT ACAGTATAAT TAACATGTTA AACCATGGGG NTAAATGCCA TCANTAAAAA 180  
ATTATGNCAT NN 192

(2) INFORMATION FOR SEQ ID NO: 6282:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 125  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07444

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6282:

GATCCACCCC CTGCCCGCAA AACATTGCTC CTAACCTCCAC CGNCTGTCCC AAAACCTATG 60  
NGANCTAATG ATAATCCCAC CACACTTTAC TGACTNTNTT TCCAGACTCA GCCCGGCTGN 120  
ACCAN 125

(2) INFORMATION FOR SEQ ID NO: 6283:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 301  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07445

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6283:

GATCTGAGTT GCAGCTCTGC ACCCTAAATC ACACCCTGGG CATTGTCTGG GCTGCAGGGC 60  
TGCCAGGTTC TGACTTGTG TCCAGCTATG GCCCTGGNTG CTGGAGCTGG AGGGTTTTCT 120  
GTGCTCAGAC TGAGCCTGT AGCTCTTGGC CTGTGTAGAG CCCCCTCCTG TGCCCTCAGT 180  
GGCTGTCGTT TGTTAACATN ATCAGGAAGA TGGGAAAGGT CAGGCAGNAT TTTTCTGNCC 240  
TACAAAGGGN GGNNGAGAAA GGACACAGTA TTTTNAATGA NTTTACCATA TATCTTTGGN 300  
N 301

## (2) INFORMATION FOR SEQ ID NO: 6284:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 108
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07446

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6284:

GATCCTTGNT TTCTAAAAGC CAGTCCTNCC CTNCAGCTTT CCACAGTTTC TGTAATGTT 60  
 TAATACTTNT ACAGTCAATG GCAATTTTAA ATATATATAT ATAANATN 108

## (2) INFORMATION FOR SEQ ID NO: 6285:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 159
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07447

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6285:

GATCTGGGGG AAAGGCTGCC AGGGCCAAGA GGCTCGTCTC ACTCCCTGCC CTGCCATTTTC 60  
 CCGGAGTGGG AAGACCCTGA GCAAGCAGCA CTGCCTTCCT GAGCCCCNGT TTTCTCATCT 120  
 GTAAAGTGGG GGTAATAAAC AGTGATATAG GNGTGCAA 159

## (2) INFORMATION FOR SEQ ID NO: 6286:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 125
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07448

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6286:

GATCACTTGA CTCTTGTAAG CGGACCTATA CTCAAAGGC TTTGGCACAC TGTCACGNTA 60  
 TTAGTATACA AATGTGCATT TGTGTTTAAG TTAAANTGAG GTNTGCNGGG TAAACTGCNA 120  
 ANTAN 125

## (2) INFORMATION FOR SEQ ID NO: 6287:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 63
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07449

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6287:

GATCTACAGT AATTTATTCT NTCTAAAAGT AAAGCATTTT CAAAACTCAG TATTTAAACC 60  
AAA 63

(2) INFORMATION FOR SEQ ID NO: 6288:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 104  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07450

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6288:

GATCTTTTCC ACTGGNCTAC TACCTGACCA TAAACATGTC TGCATTTGAA TTCTCTAAAC 60  
CCTAAATCTG TGTCTATGAA AAATACAAAT GACTATTAAA TAAA 104

(2) INFORMATION FOR SEQ ID NO: 6289:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 123  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07451

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6289:

GATCTACCCA CCTCGGCCTC CCAATGTGCT AGGNTTACAG GCATGAGCCA TGGCGNCCGG 60  
NCAAGTTTCT ATTCTTAAAA TAAAGAGGTT ATACATCTAA NTTACAANTC GTGGCCAAAA 120  
NGN 123

(2) INFORMATION FOR SEQ ID NO: 6290:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 296  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07452

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6290:

GATCTGCCCCG NCTCAACCTC CCAAAGTGCT GGGATTATAG GCGTGAGCAC CGCCCCCAGN 60  
TGATTCCAGG CGAATTCCTC TCTGATGGGC GGGCGAGGGT GTGTTCGTGT GATGGGTTGG 120  
NGTGTGTGTG TCTNNGTACA CAGATGATGT GTTTTCCCTT CAGCTTCTTA CGTTTTCTGA 180  
GCATCCGTTG TGCCTTAACA TTTTCTGNNT GTCCTTTGGG NCAAGCAGT ATTTTACTNA 240  
TNCTTTGAAT GTTCTCATTC TATTNTATCA TGTGACTTAT TAAAANNAGN TTNTAN 296

(2) INFORMATION FOR SEQ ID NO: 6291:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 228

(B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07453  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6291:  
 GATCTGATGG ATTAATAAGG GGTNTCCCN ATTGCTTGGC TCTCATTCTC TCTTGTCTGC 60  
 TGCCATGTAA GATGTGCCTT TTGCCTTCCA CCATGATTGT NAGGCCTCCC AGCCACATGG 120  
 AACTGTGAGN TCATTAAACC TCTTTTCTT CATAAATTAC CCAGTCTCGG GTATGTCTTT 180  
 ATCAGCAGTG TGCAAGNNGG GGNGNTACAC CACTNCTCTA ACTANNTN 228

(2) INFORMATION FOR SEQ ID NO: 6292:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 176  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07454  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6292:  
 GATCCTGTGG TCAGAGGCCT CTTTGGCAGT GTNTTCTTAC CCTTAAGNAA GGTCATGAAA 60  
 TCCAGAAGGG GCAACCTTTN CAGGAGAGCT TTGGAGTCAT TTCTGTGTGA GNCACATTG 120  
 CATAATCCTG NCAGNTTGCT TTTATATTTA AGGANTGATG TTACTIONCA ACTGAN 176

(2) INFORMATION FOR SEQ ID NO: 6293:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 310  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07455  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6293:  
 GATCTGACTG CTGGCTATAG GATTTTGGAC TTAATGACTG AAATTGCAAA TTGTCCTTTT 60  
 TCTTGGCATT ACAGATTTTG CAAAATAAC TTTTGTATC AAATATTGAT GTGTGAAAGT 120  
 GAAGGAGCTA GTCTGCTGAA CCAGGAATAG TTTGAGATAT TGAAGTGTCA TTTTGNACA 180  
 TTTGAATACT TTGCAGGCTG GCTTTGTATA AACTTATCCT CNGGNMNCCT ATATGTTGTA 240  
 AATATNTAGN CCATAATTCC ATTATAANTA AANCCTATAA ACTATTCAAA CNAANANCAA 300  
 ANAACANANN 310

(2) INFORMATION FOR SEQ ID NO: 6294:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 258  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07456



## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6294:

GATCCCAAAA AGTTTCCTTC TGCCCTTTTT CAATNCCTCC TTCCCGCCCN TCTGCTTTTG 60  
 TCATTATATA TTA CTTTGCA TTTCTAGAA TTT CATATAA ATGGAATCAT ANAGTATCTA 120  
 CTCTTTGTTG TTGTCTGGCT TCTNTCACTC AGCATAATTA TTTTGAAACT TATCTATGCT 180  
 GNTGTGGGTA TCAGTAGCTC ATTANCCNAT TGTGCTGAG TAGTNTTTNA TTGTATGANN 240  
 GTGCTACACG TTATNCGN 258

## (2) INFORMATION FOR SEQ ID NO: 6295:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 31  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07457

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6295:

GATCTTAATA AATAATACCT TACTGCTTAA A 31

## (2) INFORMATION FOR SEQ ID NO: 6296:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 38  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07458

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6296:

GATCTATGTA CAATTTTAAT AAAATCCTGT CCATGAAA 38

## (2) INFORMATION FOR SEQ ID NO: 6297:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 73  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07459

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6297:

GATCACCTAC TAAGANGTAC TTCCTACNTT TCATTCTTTC TTTATAAGAA TTAATTAANT 60  
 TTTAATTGAC AAA 73

## (2) INFORMATION FOR SEQ ID NO: 6298:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 311  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single

(D) TOPOLOGY: linear  
(vii) IMMEDIATE SOURCE:  
(B) CLONE: HUMGS07460  
(ix) FEATURE:  
(D) OTHER INFORMATION: "N"=unidentified base  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6298:  
GATCCACCCA CCTTGGCTTC CCAAAGTGCT GGGATNACAG GCATGAGCCA CCGCACCCGG 60  
CCCTATCTCA AGCTTCTTAA CTGCACCTGC TAAATCCCTT TTGCCATGTA AGGTAACGTA 120  
CCAACGGTTT CAGAGNTTAG GNTGTGGNCA TTTTGGGGGG CTGTTTTTCT GACTGCAATA 180  
CCTGGTNTCC AGTGAATCCA TGTTTAGTGG AGGACAACAT TTGAGGCACT TACATGGATN 240  
CTAGGGGACA TNTATGTGAN TGTTAGGCAN AAAGTGCTGC CTNCANGNCA NGCAAATACC 300  
NATTNAATAT N 311

(2) INFORMATION FOR SEQ ID NO: 6299:  
(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 115  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear  
(vii) IMMEDIATE SOURCE:  
(B) CLONE: HUMGS07461  
(ix) FEATURE:  
(D) OTHER INFORMATION: "N"=unidentified base  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6299:  
GATCAAAAAA TAACTATAAG TATCCTCAGC CAAGTAGCCC ATGCCGCTGC TCTGCCTACG 60  
GNGTACTCAT CTTTATTTCT TTA CTTTCTT AATAAACTTG CTTTCAATGT ACAA 115

(2) INFORMATION FOR SEQ ID NO: 6300:  
(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 310  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear  
(vii) IMMEDIATE SOURCE:  
(B) CLONE: HUMGS07462  
(ix) FEATURE:  
(D) OTHER INFORMATION: "N"=unidentified base  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6300:  
GATCCTACTG CCTCGTCCTC TCAGAGTGCT GGGATTACAG NNGTGAGCCA CCACAGNAAG 60  
NCACAAATAG CGATTTTATC TACTACCACC AGAAATCTTC TGACATACTG TTTTACCGCA 120  
TGAAGTATTG TTTTCTTTAT AAATTCCTTA ACAAATCTCT GTTGTATAGA ATACTGTTGG 180  
TTAAATATA TCAGCAGCTA ATAGCTCATT TTAAATAGAT TCTGAAAGTT CAAGNATTTC 240  
AGGTTGCCAG NCACCNNTAT ACTCTACANA ATCAGANANG GCTCATTCCT GNTTNCTNAC 300  
ACAACAAANN 310

(2) INFORMATION FOR SEQ ID NO: 6301:  
(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 209  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear  
(vii) IMMEDIATE SOURCE:  
(B) CLONE: HUMGS07463  
(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6301:

```
GATCAGGGAT GTCCAATCTT TTGGCTTCCC TGAGCCACAT TGGAAGAAGA ATTGTCTTGG 60
GCCGCACATA AAATATGCTA ACACTGACGA TAGCTGATGA GCTTAAAAAA AAAAAANTTG 120
CANGAAAAAT CTCATGTTTT ANGAAGGTTT NCAGNTTGT GTTGGGCTGC ATTTAANGCT 180
GTNCTGGGCT GCNTTGGNCC CGNGGGCTN 209
```

(2) INFORMATION FOR SEQ ID NO: 6302:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 312  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07464

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6302:

```
GATCATAGCT CCTGGTAACT GTGGACTTGA TAGATTTNAG GTACCTAGTT CAGAACTCCC 60
TAGTCACCAT CTCCAAGCCT GTCAACATCA CTGCATATTG GAGGAGATGA CAGTGGTAGG 120
ACCCAAGGAA GAGATGTGTG NCTGANTAGT CGTCACCATA TCTCCAAGCT TCCNGGCAAC 180
CAGTGGGAAA AGAAACATGC GAGNCTGTAG GAAGNGGGAA GCTCTTCCTT GGCANCTAGG 240
AGGNNTTAGC CATTCTCTTC CTTATGCAAN GATTGAGGAN TGCAACAATA TAAAGNACGT 300
GNAGTCCNA NN 312
```

(2) INFORMATION FOR SEQ ID NO: 6303:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 147  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07465

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6303:

```
GATCCGCCCC CCTCAGCCTC CCAAAGTGTT GGGATTACAG GCGTGAGCAC CGCGCCTGAA 60
NCTGAAGTT ACTTTTCTTT TCAGTGGTTT GGGGCAGGGT GTTACACAGC TTAATAGATT 120
AAGAAGAATA AAATGCTGAA TGCTAAA 147
```

(2) INFORMATION FOR SEQ ID NO: 6304:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 294  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07466

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6304:

```
GATCATATTT CCTCAAAAAT AAGAGAAATA AGGTTTCATAA GGAAACTTGC TGGGATTGTG 60
GTTGTTTTGT TTTCTCAGCA GCACAAACAA AACCAGAATT TAGCCTTTAG GACTGCTGAG 120
TAAGCCAAAT TTAAATGACT ACTGCTTTGT NCATGGGTAA GCCATGTNCT TTTCAAAATA 180
```

AGTGCCACTA AAANCCACAT AATGCTTTGG TTTCTATGTG GCTAATANNT ATTTNGTCCT 240  
 ATAGTTTATC TTATTGTNA CTGATTTCN TCTCTGNAT GCCTCATATT ANT 294

(2) INFORMATION FOR SEQ ID NO: 6305:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 294
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07467

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6305:

GATCCATTCG CCCCAAGGGG ACAACGGGGT GTCAGGGGAG TNAGGGGTGG AGGTAGGGGC 60  
 CAAAGAGGCT TACACGATAT CCCATACCTT TAATGCCTTT GGCCTTCCAT TCTNACTTCT 120  
 CTNATGAGAT TATTGTCAAC CCTGCTTTCC CTGGTAGATA TTTGCCAGGC CCAATGCTTT 180  
 AACCTTAAGC TGATATTTTN CCTTTAGATG TCAATCTCGT TACCAGCAGC CTTTTGACCC 240  
 AACTNCAGNG NTCTATATTT NCGTAGNGGN TTTTCNCCCA TGTGCATGGA TNTN 294

(2) INFORMATION FOR SEQ ID NO: 6306:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 129
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07468

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6306:

GATCCCAGAG GCTGAGGGTT GGGGAGAGGA AGCCATCATC TCATTACCTC TGTCAGTGCA 60  
 GGGGTGGCTN CTNCTTCCCT TGTGCACTTG GGTGCTGTG ATTGTAAATA AACGTGATTT 120  
 CGTACCAAA 129

(2) INFORMATION FOR SEQ ID NO: 6307:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 193
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07469

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6307:

GATCTCTTTG TNATTTAAGA AGTGGCTGGA TTGGAACCTT TAATATGCTA ATNTGGAAAA 60  
 TTAATTACCT TTATGAAGGT GGTTTATTAC AAATAAGCAC ACTAACCCTT CGGAAGTTGT 120  
 TTTACCTACT TAAAAGTTT TANTGGATTG CNCCTCTGTA ANCTATTCCT AANNTGTGTA 180  
 TGANATATTT NAN 193

(2) INFORMATION FOR SEQ ID NO: 6308:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 291

(B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07470  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6308:  
 GATCTTTCTT CCTCTCCAGC CCACAAGTGG CTCTAGTGAG ACGAGCATTT AAGCTGCAGG 60  
 TGGTGGCACT CGGGTCTCAG AGCCACCAGA CGTGCAGGTG GGACAGTGGT TCCAGCTCCG 120  
 GCTGCCTGTN AGCGTCCCTC CCAGGTGCTA GCCCTGGCAG GCACAGCCCT NCCCTCATGC 180  
 CAGCAAAGGA AATGCTCTTG ATGAGAGGCT CGCTTTAAAG AAGCCCAAAG CGTGTGCTTA 240  
 TCCAAGGGGT TCAGCTATTC CTGACTTCAC GGCTTGCATG TTTGATTTTG N 291

(2) INFORMATION FOR SEQ ID NO: 6309:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 97  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07471  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6309:  
 GATCATATGT ATTTNTATGT TCTGTAAAGN ATTTGACTTA CTAGTTCTCA ATAAAATTTT 60  
 ATTAGGACTA TAAAAAATAA AAAAAANTTT TAATAAA 97

(2) INFORMATION FOR SEQ ID NO: 6310:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 147  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07472  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6310:  
 GATCTTATGT ACATACCCAT TTTAGCTTTC CCATGCATAC TTAAGTGCAC TTGCTTTATC 60  
 TCCTTGGGCA TTCTTACTTA GGATTCAATA GAAACATGTA CAGGGTAAAC AATTTTTTAA 120  
 AAATAAACT TCATGGAGTA TCTGAAA 147

(2) INFORMATION FOR SEQ ID NO: 6311:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 190  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07473  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6311:

GATCACATTT TGAAATGCCT AAAAGACTTT ATTGTTCTAA TTATCCAGAT GTACCTTTGT 60  
 AAAATAGCTC TTTTATGAAT TAGCTGATAA GGCTGTATGT TTCTGGANCA AATATTGGGN 120  
 CACCTAAAAC CTTCCGTTT CCGGGGGCCN GGGAAATNGG AAATNAGGTT TCNAATNTTA 180  
 AATNAGGNTN 190

(2) INFORMATION FOR SEQ ID NO: 6312:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 65
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07474

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6312:

GATCTGGATT TTTGCCAATT CCTATGAAAA ATAATCCCCA GAAATAAACT ACTAAGGAAA 60  
 ATAAA 65

(2) INFORMATION FOR SEQ ID NO: 6313:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 79
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07475

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6313:

GATCCATTGG TGTTTGGTTT GGGGTGTTTT TTAAGTTTTT TCTTTTATAT CATCCAGAAA 60  
 TAAAGACACG TACACTAAA 79

(2) INFORMATION FOR SEQ ID NO: 6314:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 204
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07476

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6314:

GATCCAATAA CCCAGTTAGG TATTATAGAT TAGTATTTAA GTTTGCTGTA GATTGTGTGT 60  
 GTGTGTGCTA AGTAAAAGTN CCATGATTCA CAATTTTAGT ATTAACCCAT GTTGCAAAAG 120  
 CTGTTACTGG CCAACAGATT GTNATGATGT GTACCATATA ACACAAGCNT TANCTNGGCA 180  
 TTANCGTTTG TNAAGCCANN TNTN 204

(2) INFORMATION FOR SEQ ID NO: 6315:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 204
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single

- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS07477
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6315:

```
GATCTCATCT CTGAAAATAA AATACCCCGT TAAAATTCTG GCTTTTGTTT GTTAAGGTTA 60
TTGAGAAGGT AATAGAAAAA GATATGATAC TACTTTNCTC TCTTGGATTT GTAAAANTAG 120
TGGAATTTTC ATAAGGATTT TGTATTTTCT ATTGCTGTAT AACATTATTA ATACAAACTT 180
ATTGGCTTAA NANNCAAANN NNNN 204
```

(2) INFORMATION FOR SEQ ID NO: 6316:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 218
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS07478
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6316:

```
GATCACGAAG ATACATGTGT TTGACTGTTT AATTGAAAG TTTACATTTT TNATGCTTTG 60
TGTGTTGTTG TAATTTTTGT ACTCTTGGTG GCTAGTTTTT GTCAAATCTT TTTTGGGAATA 120
TTGCTTAAAT GTNTTGATTT TATGATAGTG AAGCTTGTAT TCAGTGTTTT GCCAATNAAT 180
ATTATATGCT TGTAATAANN GCAAAGANA AGCTTAAA 218
```

(2) INFORMATION FOR SEQ ID NO: 6317:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 335
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS07479
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6317:

```
GATCCCAGTG GGAACCTTCA TGCCTTATTN ATTTCTAATG GGTAAGGGG TTTTNTTACC 60
AAGCATCCCT GACCTCCTGG AGACACCACC TGCTTTCCGG GCGGCACTGT GATGGGAGCT 120
GGTGGCGACT GAGTCCTTCT GTACGTGCAA CTGGGAACT TTTGTCCTTT GAGGCTAGGC 180
AGCTCCCTGC CCTCCGTGTG TGTCTGTTAT CTGGGGGAGA GGAGTGTGGG AAGGNNTTGG 240
GGGAAGAGCT CCAGCCTGTN TTGNTCCCAA AGTTCTNNAG TGGGAAGACC NGGGTNACCT 300
TTTNAGGGTN TANGGTGNGG GGAANTTNTT TTTTN 335
```

(2) INFORMATION FOR SEQ ID NO: 6318:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 266
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS07480
- (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6318:

```
GATCTGCGTG TCAAAGTGT CCATTTGTTT ATGTAAAGTG ATATTAAAAA AGATATAAAC 60
TATAACTGTC CGTTACTTTT GGCAAAAGAT ACAACCACAT AATGTATATA ATTCCTAGTT 120
TCCATATTTA TCCGCATGTA AAGGGCCGGT TTATCCATGT TACAGCTCTT CAATATTTAT 180
GGCTAGAAGA NCTCGTATGT ACACTTTAGT TTCCAGAACT GTTTGGTAAC CTTTCGTACC 240
TNATTAGAGG ATTCTNAAAT CTCAAA 266
```

(2) INFORMATION FOR SEQ ID NO: 6319:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 313  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07481

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6319:

```
GATCCACCCA NCTCGGCTTC CCAAAGTNT GGGATTATAG GCGTGAGGCA CCGTGCCTTG 60
CCGATAAATG GATTTNAAGC TGAGTCTTTG AGGGAAGAGT AGGACCTGCA CTGAAACAAA 120
AAGACAATTT GTGGGGTTGG GGNGAGGAAC CAGATGTAAA CAATGGAAAG NTTTTGGTGT 180
CACTTTGAGN NGGATTTTTT GGAAGGGTTT TGCAATGTCC ATTCTGTATC TTGGGTTANC 240
ACTAGTAAGT CAAATGGNGA ATAATTTGAG TGTCACNT TCCCTNCAGT TNGGAAAAAN 300
TTTTTANCNG TTN 313
```

(2) INFORMATION FOR SEQ ID NO: 6320:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 144  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07483

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6320:

```
GATCTGTGCT TTNCCCACT TTGCCACACT GTCTAAGGTG GCTTTNAACT GGAACCCAAG 60
TGCAAATAAA GGTGGGTATT CGCTCCTGAA AAAAAAAAAA AAAAAAAAAA AAAAAANAAA 120
AAAAAAAAANA AAATNAACNA AANN 144
```

(2) INFORMATION FOR SEQ ID NO: 6321:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 332  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07484

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6321:

```
GATCCCTCCT CACTTGCCCT GCCACTTTC ATGGTTTAT TCTTAACCTG GTCCCCCAGC 60
TGTTAAGTGT AGTGGCATCC ATTTCTAATG TATGCATTCA TCCAACAGAG TTATTTATTG 120
```



GCTGGAGATG GAAAATCACA CCACCTGACA GGCCTTCTGG GCCTCCAAAG CCCATCCTTG 180  
 GGGTTCCCCC TCCCTGTGTG AAATGTATTA TCACCAGCAG NCACTGCCGG GCCTCCCTCC 240  
 CGGGGGCACT GCCTGAGGGC GAGTGTGGGN NTAGCATTAG CTGCTTNCTN CNNNCCTGGN 300  
 ACCNACTGTG GCCTGGAATN GNATAGTGGT NN 332

(2) INFORMATION FOR SEQ ID NO: 6322:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 376
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07485

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6322:

GATCTAATTA ATGTGAAGGA CTNGCCAGTC TGGGAAACCG CCTGCCACGT GGAAGAGCCA 60  
 AACCCGACTC TNTGCTGCCA CATGCCGTTT CCATGCCCGG CTGCTGGGCA CCTGGNAGAG 120  
 CTTCCAGAAT CCTCGCAGAC AGCCCAGAGC CTGCCGCTAC CCTCGGCCTG CCCACCACCA 180  
 AGCAAGCAGC AAGCAAGATG GGGTTCTCAT CAGTTCTTCC TTCCCACAAT GTAGGACCTT 240  
 TCCTTTTACC TTTNCAATGG GATAAAATAG TTCAGAGTTC ATTAGTCATA TTTCATTGGN 300  
 CACAAGGAAT TCAANGGTTT TTTNANCAAT TTANCANTTC ACCCGTCTTA TGTNGTTTAA 360  
 NANTNANANC NANTCN 376

(2) INFORMATION FOR SEQ ID NO: 6323:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 109
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07486

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6323:

GATCACAGAC ACCCAGTNCG TGGNCCCTGT CTTACCCCA GCNAGCATCA TGTNAGTGGG 60  
 CCTCGTTCCC CCCGAGAAT CCCAGCGGG CCTCANAGAT GCATCTGGN 109

(2) INFORMATION FOR SEQ ID NO: 6324:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 156
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07487

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6324:

GATCTTGGCT GCTTTTAACT AGAAGTTGC TTTNATNAGC ATATTTATAC TGCTGAAGGA 60  
 TGAGTGTNAA TTAAATTAA CTTTGCCGTT TTGTAGAGAA AACTATTCAC AAGATAAATN 120  
 CCAAGTCTTT NCACCTGTCA GGCATGCATA TNTNAN 156

(2) INFORMATION FOR SEQ ID NO: 6325:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 229  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07488  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6325:  
 GATCCCAGTG AAGGGTTTTG TGTGTTTAGG CCTCATTCTT TTGTCTTTTT CCTACTCCGT 60  
 TCCTGGCATT TCCTGATTTT NAGTGTATAC TCTGTAGTCT CAGTTCGTGT TTGATTCCAT 120  
 TCCATGGAAA TAAAAAGTAT GTTGTACATA CTGCCGAAGA ATTGTCTTGC AAGTAAAGGC 180  
 TTCCCCCTTT ACTATAAGAC TATAANTAAA ACCTTATTNN ATCCTTAAA 229

(2) INFORMATION FOR SEQ ID NO: 6326:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 190  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07489  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6326:  
 GATCTTACAC ATTCTGTGTA TAAAGACCTT AACTCCACAG GACGGACATT TTAGAGTTTA 60  
 AATTATTAAG GCTATCATTC TTTTAGTAAT GTCATATTGG CAAACTTTTT NAGTTTTGGC 120  
 CTTTAATTTA AAANGCCTAA TTTTAANGTG CTGCCTGTNA GTAACCTTTG ANTAANANCA 180  
 ANTTATNACN 190

(2) INFORMATION FOR SEQ ID NO: 6327:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 355  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07490  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6327:  
 GATCTCAGCT CTTTNGGTGA CTGCATATGC AGTGGTGACC CAGCACAGTT TCCATCAATC 60  
 TCGTCAAAAAG ACTTGAGGTT GTTGGGCACA GTATTTTCTG TGACCACAGT TAAAAAGCTG 120  
 GGTATACACA ATTAACANCC AANGTGATAT GCATTTTATAC CTTTCCCTTT ATGNCCAATT 180  
 TCTTTATAAA TATGGCTCAT CTGCTCATAA CTGTTAGNCC CACCCAACTG TCATTAGTAA 240  
 CCTGAGTGTT TATGCTTGCA AAAGTGTATG TTGTTATTGT CTGATTTGAT NATATTCTNGT 300  
 GNTGTTTAGN GAATGCNGTN GTGTTTNNANT GNATCACAAA NAATTNCCCC ATTNN 355

(2) INFORMATION FOR SEQ ID NO: 6328:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 298  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single

(D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07491  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6328:  
 GATCATTTGA ATCTCAGTCT TCAGCCTGCA CTGATTTGTA GCCTGCACTG TCTTACTGAT 60  
 TTACAAACTG AAATCACTGA GAAATGTCTT TAGTTCAGTG AGAAGAAACC AGAACACTTG 120  
 TTCCTAGTGT TGTGTTGTTT TTTTAAAGCA AATTACTTAC TGTATTTTNA TGGCAGGNGG 180  
 GNGAAAAAGT GTTACAACGG TTTCTAATGA AGTCCGGTAT TTANNTGGTA AATGACTAAT 240  
 GTGTTTAGTA GTGCCAAANT AAACCATTAN NTGNTTGTCC TTTGCCAAAN ANANNANN 298

(2) INFORMATION FOR SEQ ID NO: 6329:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 225  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07492  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6329:  
 GATCACAAAG AAAAAGCATT TTAAAAAGT TGGCAAACGC TGAAACGCAC TGTGGTATGA 60  
 GGCGCATTGC ATTTCCATAG CACTGAAGTA CCAGTTTCCA TTCCTGGGCT GNGATTGTTT 120  
 TTCCCGTGGT TGTATTGTTT TGATTTAACG ACCACCAGNG TAACTGNTTT TTNTTTGTTT 180  
 GTTTNTCTGGT GGGGTNNCCA CCAATTAAAA CTNNTANAAN CCCGN 225

(2) INFORMATION FOR SEQ ID NO: 6330:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 229  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07493  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6330:  
 GATCGACTTC GATAAAATAC TTTTGCCTAA TCAAAATTAG AGTGTGTTTG TTGTCTGTGT 60  
 AAAATAGAAT TAATGTATCT NGCTAGTAAG GGCACGTAGA GCATTTAGAG TTGTCTTTCA 120  
 GCATTCAATC AGGCTGAGCT GAATGTAGTG ATGTTTACAT TGTTTACATT CTTTGTACTG 180  
 TCTTCTGCT CAGACTCTAC TGCTTTTAAT AAAANTTNAT TTTTGTAAT 229

(2) INFORMATION FOR SEQ ID NO: 6331:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 345  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07494  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6331:

GATCTAAAGA CCCGATAGGT GCAGAACCCA TCTGGACACG GAGACCAGGA ATGGAGTTCC 60  
 ATGGAGGCCT GGCTGGCACT GCACCCGGGC ATGAGGACAC ATCCAGTAAG AAGACCTGCC 120  
 TCAAGAGGTG CACTGCGGTG ACCAGTGGAG GTNACTGGTT GGAGCCTGGA ATTGGAAGCA 180  
 GATTCCAAGC TCTGGTGGAC AAACCTCTCCA GGCCTGGTGG GATTACAGC TGGGGCAGNC 240  
 CTCATCCTGG CTGCNTGGCC ACAGNCCCN GCTNTTTNCC ACTTGGTGGT AGGGCCGATG 300  
 CCTTNTTTGG ANGAGNTGGG NTTNTTTTGG TCNCGACTGN GTANN 345

## (2) INFORMATION FOR SEQ ID NO: 6332:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 219  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07495

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6332:

GATCACAAAG AAAANGCATT TTTAAAAAGT TGGCAAACGC TGAAACGCAC TGTGGTATGA 60  
 AGCGCATTGC ATTTCCATAG CACTCNAGTA CCAGTTTCCA TTCCTGGGCT GAGNTTGTGT 120  
 TTCCCGTGGT TGNATTGTNC TGATTTACAG TACNCCAGAG TAACTGNTTT TTTTGTGT 180  
 GTTTTCTTGT GGAGTTAACA CCANNTAAAA NTTGTAAAN 219

## (2) INFORMATION FOR SEQ ID NO: 6333:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 60  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07496

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6333:

GATCTATTTT TCAGCTTTCA CTTATGTGAG CCAATAAATT CCTTTTTTGT TGAAGGCAAA 60

## (2) INFORMATION FOR SEQ ID NO: 6334:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 154  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07497

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6334:

GATCTACCCC CCCATCAACG TGCCCCCTCG ACTCCCGGTG CTGCGGAAGA ACTGAAGGTT 60  
 GCNATGCCTT ACTCTGACGG GAGCATCTGT ATTTTAATGT TAAAGCCCA CAAAATAAAA 120  
 ATAAAAAGTA ACTGAGATGA ATTTAATAAA CAAA 154

## (2) INFORMATION FOR SEQ ID NO: 6335:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 91  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07498  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6335:  
 GATCTATGCT GTATGCACAG ATTGCATAAT GGCTTTTTTN CTTAACATTA TGTGATAAGC 60  
 ATTTNCCTGA ATAANCTTAT TTTAAAATAA A 91

(2) INFORMATION FOR SEQ ID NO: 6336:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 181  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07499  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6336:  
 GATCAGGTGT GGCCAATNAA ATTNAAGAGG AAGTCTACCT GGGNTTCTGG GAAAGCTTTT 60  
 CCAATAAAAG ACACAGGCAT GGCTAACACC TCCCTGGGCC TCTTCTTCCT ACCTTGATTG 120  
 AGGGTGTGAT GCCTGGAGCC ACAGCAGCCA CTTTGNNNNC ATGACAAAAA GGCCAAGNGN 180  
 N 181

(2) INFORMATION FOR SEQ ID NO: 6337:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 77  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07500  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6337:  
 GATCACAAA ACCTGATGTT TTAAATNTGC TTTCTTTTGT AAATTTATGT TTTCAAATAA 60  
 AATCTCCCTA AAGCAAA 77

(2) INFORMATION FOR SEQ ID NO: 6338:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 265  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07501  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6338:  
 GATCCTATGA GTGTAGTTAA TGACTGTTNG TAAGTCAGTA GAGTAAAATN CTGTGTCCAC 60

GGGGTGTAC AGCCTCACCA TACCCTGTTG AGGTGTGAAA TGCCCCGTCA GAAATTAAAT 120  
 ACAAACCTTAA ATGTGCCTAT TGGTGTCTAA NCTTCATACA ATGTAAGGNC AGATTCCTTT 180  
 TNGGNNTACT GGGTGCTGTC GCCAGGTTTG NTAGTTAGAC TTAAAANCTT GANATTCACT 240  
 TTTTGGGGGG NGGGNTATAC TGANN 265

(2) INFORMATION FOR SEQ ID NO: 6339:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 161  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07502

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6339:

GATCTATTGG AAAACAACAT GGAATGGAAT TCTGGAAATN ATTATTCATT GAAGAATGCA 60  
 GTGGCCAAGA AAATATCAAA TGTAAGTTGT NAACGCTTGA GAATCATGGC TATGGTTTCT 120  
 NATGTCCTGG TAACANGCTG TTATCTTTNN NGACATTTN N 161

(2) INFORMATION FOR SEQ ID NO: 6340:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 272  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07503

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6340:

GATCTAGTTA TAAAATACAT GAAAAGGCTG ATGCAGCAAT CGGTGGAATC GGTTTGAAT 60  
 ATGGCATTGG ANTTTATTCT TGACAATGTC CAGGTGGTTT TANAACAAAC TTATGGAAGC 120  
 ACATTAAAG TTACATAANT ATTACCAGAG AGCCTGATGC TCTCTGATAG CTGTGCCATA 180  
 AGTNCTTGTG AGGTATTTNC AAAGTGCATG ATAGTAATGC TCGNGTTTT TATAATTNNN 240  
 NNTTCCTTTT AAAGCAAGTN TTTTGTACAT NN 272

(2) INFORMATION FOR SEQ ID NO: 6341:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 345  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07504

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6341:

GATCAGTGTG GAAAAGCCTT CANTCAGAAA GGAAGCTTAA TTNTNCACAT CAGAGTCCAC 60  
 ACAGGCCTGA AGCCCTATGC CTGTNCCCAG TGCAGGAAGA GTTTCACAC CAGGGGGAAT 120  
 TGTATTCTGC ATGGCAAAT CCACACAGGA GAGACACCCT ATCTNTNCGG CCAGTNTGGA 180  
 AAAAGCTTCA CCCAGAGAGG GAGTCTGGCT GTGCACCAGC GAAGTCTTCA CAGAGGCTCA 240  
 CCCTTTGACC ACTTTCCTGA AGAGAAGTTC TCTTTATGAA TTAAGGAGTA CAAAATCCTC 300  
 TGAGNTTGAN GCAACCCTAT CCAAGTTTCT ANTGGGANTG GTTGN 345

## (2) INFORMATION FOR SEQ ID NO: 6342:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 212
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07505

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6342:

```
GATCTGTCTG CCCATCTGGC CCAGGGGGTC CGAGAAGGGA AGCCTTGGGC AAGAGGNGAC 60
CAGTTGCAAT ACTGTACTTC CTGGTCAGTG GCCAGAGGAT GCGTGCAATA GCAGAGGCCA 120
GGTNACCCCT TCAGCCTTGG CCTCTGCCNC TCCATTGGCC CTCCCTNCCT GNTNCTNCNT 180
GGTGTNGGTC AGTCCTTTTC TAAAGNTGTC CN 212
```

## (2) INFORMATION FOR SEQ ID NO: 6343:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 316
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07506

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6343:

```
GATCTTCGTA TAATTGGCCA CTAATGTGAG AGTTCACTAC TAGGCAGAAA CTATTATGGA 60
CAGTNAAATA ATGACTTTAA TCTCACCACG TGAGTTTNAT GCAGTCTTTC CTGTCTAGCC 120
CTTGCCCTCN CCTGCCCATG TNATTGCGGT GCAGTAGTTT CTGTNGTATA ATAGTGTGGA 180
CAGCAGCTCA GAAAAGGAGG GAATGCTACT GATAATTTGT AGATAATNNN NTTTANGACT 240
TAGGGGAACC ATTGACCTTT GANATTTTNA TTAGAAAATN ATTTGTNCAG AATCAGACTC 300
CATTATTTNC CATATN 316
```

## (2) INFORMATION FOR SEQ ID NO: 6344:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 184
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07507

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6344:

```
GATCAAAAGG AATGATGTAT TTTTAACGTG TTGGCCAAAG TCACTGGATA AAATGAGAAT 60
TGTATATTTN TAATTCATTT TGCAAATNCA GAAAGTTGGT CCAGATATAT GTCACAGANC 120
TTTNCACCTG TATACTACTC TTACAATGGA AAANNNTCCC GAAANCTGTA TACTTCTGAT 180
TANN 184
```

## (2) INFORMATION FOR SEQ ID NO: 6345:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 361

- (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07508  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6345:

```
GATCAGACCA TGCAGGTAAG GTGAACCAGC TGCACGGACC AGGTTCCCGC AAAACATTGC 60
CAGCTAGTGA GGCATAATTT GCTCAAAGTA TAGAAACAGC CCACCTGTGC CCACTTTGAC 120
CATTGGTGAG GATAGATATA AAATCACTTC TTCCAACGAA GCCTAGGTGA AAATCTATTT 180
ATAAATGGAC CACAACCTCTG GGGTGTCTGT TTTGTGCTGT GACTTCCTAA TTATTGCTAA 240
AGAACTACTG TTTAGTTGGT AATGGTGTA AATTACATTC AGCTCCTTCT TGTCATATAA 300
ANAGGAATTT GGNGGGTGTC GGTTTAAANA TTTTATTNCA CCTGTACCAT TTNGTCACTC 360
N 361
```

(2) INFORMATION FOR SEQ ID NO: 6346:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 266  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07509

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6346:

```
GATCTGTTGT TATACCAATT GAATTAATTG AGTTNNTTGT TGGACATTG GGTGTTNC 60
AAGTCTTTGC TATTGTGAAT AGTCAATGGC AGTATTTTNA ATGTTGGTCT ATTATTGTAC 120
TAAATAGTTG TTTATATTGA GCTTGGGAAA GCTTTCGTGT CCAATAGAAA TAGCATATTA 180
AAATAAATGC CACTGTATAT NAATGANAGT GTTGATTATA TACCCTAGAN ACTTAANCCT 240
TAAGGNAGTT ATGTTNTAAT TNNCTN 266
```

(2) INFORMATION FOR SEQ ID NO: 6347:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 355  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07510

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6347:

```
GATCAACTCC AGTTTCCAAT GTCTATGTGT CTATGTGTGT ATGTNCCATA CATATGTATT 60
CACATGAAGA CCGGCATGGC CAAGTNCCTGC TGGAGGAGCA CTCAAGTGTG ACGAGCAGGG 120
CCACTGGACC CTGCAGGGCT GTGGTGTATA TAGTGCAGCT TTGGAGGTGG AACTCTATTT 180
NAACACTTTT CTATGGAGCC TTCCGAGTCC CAGGTTTTNA CTTGAGGCTG TCTGTCTGGA 240
TGGCGGTTTT NAGACCTCCA TTAACATCCC TACCCAGCAT TCTGTACTTC GGGGGGNCTT 300
CTATCTTGTN ATAAACTTN TTACCAAGTG GAACATCGGT TACCCACCTT TTGTN 355
```

(2) INFORMATION FOR SEQ ID NO: 6348:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 358



(B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07511  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6348:  
 GATCGTCCTG CCTTTGTAAG GCAGATTTGG AGGGGAGGCC CAACAGCAAA GATGGAGAGG 60  
 AAAAAGGGAG TGGAGCTTGT GGAACAGGAA GCCCCCAGG GTCTGTCCAG GGCTGCTCAG 120  
 CTCTTNAGGA TGTGTGGAT GGTGAAGTGG TGATGGTGTC CTGGAGCAGC CCAGCACCTC 180  
 CACTGGGCCC AGAAGGTCTT GACTTCGGAC ACTTACCCCT GTTTCACAAG TGTTTATAAA 240  
 GCTGTTTTTN CTTTNGTTTT TCTCCTAAAT AATCCTTACT TGGTAGTTAT NAATCCTTCT 300  
 TTGGGGGAGG GACAGGGGCT TTAAANCCTG GAGGAAAATT AATTTTNNAT TAANGGAN 358

(2) INFORMATION FOR SEQ ID NO: 6349:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 106  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07512  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6349:  
 GATCATGGAA GCTCCGTGCC CTTTCTCCCA TTCCTTGCCC TAAGTATCGC CTCCATCTGG 60  
 TTGTTTGTCT GTATCCTTTA TTAATAAACA AGTAAATNTA AGTAAA 106

(2) INFORMATION FOR SEQ ID NO: 6350:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 135  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07513  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6350:  
 GATCAGTGCC AGAAGTCATT GTATTCAAAG AAGAATAAGC AAGAAAGAAA AGAAGGAAGG 60  
 AAGAGAGGTA GACAGATACA AGATGAAATC CTGTCAAAAA ATGGAAGGAA ANCCAGAAAN 120  
 TGAGAGTNNN CCANN 135

(2) INFORMATION FOR SEQ ID NO: 6351:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 156  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07514  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6351:  
 GATCAGGAAC ATGGCAAGGA ACACCACACC ACTGCTTTTN AGCATTGTAC TGGAAAGTNCT 60  
 ATATAATGCA GTGTTAAAAA AAAAAGAAAT AAAATGCACA TAGATTGAA AGGNTGAAAT 120  
 ACAACTTTNT NCACAAGTAA CATGATTGTN TTTNTN 156

(2) INFORMATION FOR SEQ ID NO: 6352:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 134  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07515

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6352:  
 GATCAAAAAG AACTATGAG TAACAAGCTA TAACATAGTT CACCACAATG GGACCCCCC 60  
 CCCTTTTCCT NACCCTACAG TTAGTAATAT TNCAATTAAT NTANCTATAT TCTNCTATAT 120  
 TTTNCCTGTT AAAN 134

(2) INFORMATION FOR SEQ ID NO: 6353:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 107  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07516

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6353:  
 GATCCACATA TCTCTAACAC CATTAATATG AATCATTGGA AATATTTTAC TTATTAACAA 60  
 AGTCTCTTGT GTTAAGCTAC AGATAAAGCT TTTGTGGTAG TGTCAAA 107

(2) INFORMATION FOR SEQ ID NO: 6354:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 350  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07517

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6354:  
 GATCCAGAGA CATGTGGCAG CAGGCATGGC TTCCCTTGG CCTCTCTGTA CACTGCCCCA 60  
 GGACTGTCAT TTTGGCATCT GCAAAGGAAT CACTTTAGAA AGCCAGCACC TGGTTGATGT 120  
 GTATTCATAC TGACATTAGA TTGATGTGCA CTGCAGGGGN AANNGCGTA GCTGNACACAG 180  
 NAAAAGGATG TTTTGATAGG AATAATTTTC TAGTATGTCT TGAAACATGT TCATCTGGAA 240  
 GTATTTTCCT CCAAAGTAAT GTAGCATGAT TTTNCAAGGA TTGTAAACAT GCCTGGGATT 300  
 GGGAAAGNTA GGCCTAANGT TGTGCCAAAC TATATCAATA AATTCCCTTN 350

(2) INFORMATION FOR SEQ ID NO: 6355:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 137  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07518  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6355:  
 GATCCCACTT GCATGCACCC AGAATTTTAT ATTCCCCAGG AATATAGCAG AGGAATATTC 60  
 TGGTATCATA TTTATCTTTC ACCATCTCAA AAATTACAGT TTAAAAAACT CAAATAAAAT 120  
 TCATCACTAT AACCAAA 137

(2) INFORMATION FOR SEQ ID NO: 6356:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 135  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07520  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6356:  
 GATCCAACCC TTGCTAGGTA TCATAGTTTA GGCCCATTTA CCTTCCCCTG TACTGGCAGT 60  
 TCAGCCGCTT ACATGCACTC ACCCTGTTTG TGGCTATTTT AAATTCATAT TATTAAAAAA 120  
 CAAAAAAAAC CCAA 135

(2) INFORMATION FOR SEQ ID NO: 6357:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 69  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07521  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6357:  
 GATCCTGTCT CAAAAAAAAC ATAACCGACA TCCAGAAGTG AAATAAATTA GCCAGTGTCA 60  
 CAAAGTAAA 69

(2) INFORMATION FOR SEQ ID NO: 6358:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 200  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07522  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6358:  
 GATCTTAAAA NTACAAAATG TAGACAATTA ATATTCAGGT GCTTACTTTT GAGCCAATAT 60

GTAGCAGAGA AAACTAATT NNTCTGTGGC AGTATTTTNA TTTTNGGCAT TTCCCAGGAA 120  
 TTAAGTGAAG ACTAAACTC ATATGTGANG TGTAATGATA CTANGGNAAG AGTCAGTAAA 180  
 ATTNCCATTT GGCTACCAA 200

(2) INFORMATION FOR SEQ ID NO: 6359:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 115
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07523

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6359:

GATCTTGTAAT ATATATAAAT NTAAATAANA TTAAANCTGT AATTCCTTTN CCCTCCAAAG 60  
 GCTTTTNTGT ACATGGCGCT GCATTGGCT ATTCCTTTG GAAATAAATA ATGTN 115

(2) INFORMATION FOR SEQ ID NO: 6360:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 319
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07524

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6360:

GATCTTCCCA CCATCACAAA TGAATTTAAA GATGAAAAGA AACTCAGTTG CTCATACAAC 60  
 TGCATTTTTC CTGTCTATTA TGGGAAACAT CAGACGTTCT GAGTAAGATA TATCTCATGG 120  
 CATTAGTTAA TATAACTNAT ATTGTTTAAAN TCATGGTATT ACATGCAATT NATATCAGAT 180  
 AAAAGCAGAA CACATTTTTG TNCTGCCTCT CTAAATGCT GAATGTAGCT GTNATGTATA 240  
 ANTCCATTTA GTTTTATGTN CTAAAGGNCT ATTTGTGCAC TCCAGNTTTN CAGTAAANTA 300  
 GNATTCCTAG TAAANCNNN 319

(2) INFORMATION FOR SEQ ID NO: 6361:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 141
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07525

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6361:

GATCCTAATT TNNTCACGAA TCCCGATGGA ACCCTGTGCT GTTNANACAT CAGTGTGTAA 60  
 AACTCTCTGT GTCCCTGTTG GGCTGTCCAG ACAGTCTGGA CTCTTGTAAT TTTAANATTT 120  
 AATTAAAGGA AACAAACCAA A 141

(2) INFORMATION FOR SEQ ID NO: 6362:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105

(B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07526  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6362:  
 GATCTTTTGC TTAGACGTTA ACTTGATGCA TCATTGGAAA GNTGTTTCTC TCATCTCTGT 60  
 CCTAAGGCTT GATAAAGTCA TTAAATTTGT NTTCTTTTGA CTAAA 105

(2) INFORMATION FOR SEQ ID NO: 6363:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 392  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07527  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6363:  
 GATCTCAGGC CAGCCGTTTG TNCTCCTAGC AGGGTTGCTG TGCTGGCCAC ACGGAGAGGC 60  
 CCTAGAGAGC CTCATGGATT GTAACATAAG AAGAAACGGT TCCTTTTTGT TTTTTTAAAA 120  
 ATNATTTTAA AATACCGTTT TTAACACCGT TCTCTCGGTA CTTTTTTTAA GCTAAGTCAG 180  
 CATTGTCTTC CAGTGTTAAA GGCATCCCTC ACCTCTGCAT TGACCTTACG NATCCATGCC 240  
 AAGGAATGGG ATTTCCATCC CTGNGGCCAG TCAGTTAGGG TGTCATTGT NCCTATTGTA 300  
 NTTTTTAATG NAATCTGATG NGGTGAGNTC AGGTTTANAA NTCTTCAAN GNNCGGTTNA 360  
 TTGTACCAGG NNTGNTATGG ATTAATCCNT GN 392

(2) INFORMATION FOR SEQ ID NO: 6364:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 205  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07528  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6364:  
 GATCTCCATT CCTTGGGCTC CGCGTCCGAN TTCATGGTGC GCCGCTGTGC TGGGAGCTGC 60  
 AGTGGGAATN TNTGGGACAC CTTGACCAA GGGGAGCTTT GTNTCGTGTG TTTTGAAAAA 120  
 GGCTTAATGA AGAGAATGTT GTTCATTCTT AGTAGTATAG TTTGCAATTC TTAATGGCAA 180  
 ATAATAAGTT TCAGTAGAAA ACAA 205

(2) INFORMATION FOR SEQ ID NO: 6365:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 343  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07529

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6365:

```

GATCCTTTTC TACCCACTTT CCTATGGAGG ATTCCTAAGTN ACCACTTCTC TCACCGGCTT 60
CTACCAGGGT CCAGGACTAA GGCGTTTTTN TCCATAGCCT CAACATTTTG GNAATCTTCC 120
CTTAATCACC CTTGCTCCTC CTGGGTGCCT GGAAGATGGA CTGGCAGAGA CCTCTTTGTT 180
GCGTTTTGTG CTTTGATGCC AGGAATGCCG CCTAGTTTAT GTCCCCGGTG GGGCACACAG 240
CGGGGGGCGC CAGGTTTTCC TTGTNCCNCA GCTGCTCTGC CCNTTNCNN TTATTNCCTG 300
ACTTCAGGNC TTGAAACNNT TCCNGTGGTG TAAATAAAAA ANN 343

```

## (2) INFORMATION FOR SEQ ID NO: 6366:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 332
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07530

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6366:

```

GATCTGTACT TTGAAAACAC ATTGAGTCCC TTAAACCAGG AAGAACTCTT CTGGGCGACC 60
GTCCACATGT TCCTTTCCCT TCCTAATGAC GTGAAGTCTG AACTCTACAG AGCCTCTGTA 120
CCTTCTCTTT AAAGGCAGCT CTGCTCACCA GGAATTGGCT ATAATNCTTT CCAACTCTCT 180
CATCATTTTA ATAGCTATCA GCAAATGTAG AGGTGTAGGG GATTTTGTA CATCTGATGT 240
ATGTAAAAAG ANATATTCAA GTTGAAGGC AGNCTAGAAC TGNCCTGNGA GATGTTTGAT 300
GTACACATTA AANNTAAGGA ATTTTACATA AA 332

```

## (2) INFORMATION FOR SEQ ID NO: 6367:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 258
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07531

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6367:

```

GATCAAGAAT GGCAAGAAAA TCACAGCCTT TGTACCAAT GACGGTTGCT TGANCTTTAT 60
TGAGGAAAAAT NATGAAGTNC TGGTTGCTGG ATTTGGTCGC AAAGGTCATG CTGTTGGTGA 120
TATTCCTGGA GTCCGCTTTA AGGTTGTCAA AGTAGCCAAT GTTCTCTTT TGGGCCTATA 180
CAAAGGCAAG ANGGNAAGGC CNAGNTCACC ATCCCTAAA TTTTAAAAG NAGTTTCACA 240
AAGNTNTGCA TATTNNNN 258

```

## (2) INFORMATION FOR SEQ ID NO: 6368:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 148
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07532

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6368:  
 GATCTGTACA TTATTGCATG TGGCAGTAGT GTATTTCAT TTTGCATACT ATTCCATTTT 60  
 AAGAATATAT TGCTGTTTAT CCTATTGATG GATATTTGTA TTTNTNATAC TTTTGTGTAA 120  
 TAATAAAAAT ACTGCTGTAA ATATTAAA 148

(2) INFORMATION FOR SEQ ID NO: 6369:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 344  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07533

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6369:  
 GATCTGATTC AAAGATAACC ATTACCCATC TTTCCAAGGC CCATCTAAGT AGTACAGGTG 60  
 TTTTGTCTTT TAAAATTGAC AGTCCTCTTT GCATTAAGTC TGTAGGGGGG GAATACAATA 120  
 TAAATATTCT NCTGTGTAAA CGTAAGAATG TGCTGTAATC TCCAGTTCCT TTGGATACCT 180  
 CAGAATTCTA TTTATTGTAT ACACTTATAC TGTTTATNCA ATGTTTTGGG TCTTACTCTT 240  
 TTTGACGTAT TCTCATCAGT CTTCACTCTA GTTTGCAAGC NCTGAAGTTA TTGATTACGT 300  
 CTAATGTGCA ATTNGGCTTC TATTAANTGC TATTTNATGG TTCN 344

(2) INFORMATION FOR SEQ ID NO: 6370:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 292  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07534

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6370:  
 GATCTNTGTC ACACCCAAGC TGGTGGAGGA GCACCTCAAA AGTGCCCANT ATANGAAACC 60  
 ACCCATCACA GTGGACTCCG TCTGCCTCAA GTGGGCACCC CCAAGCACA AGCANGTCAA 120  
 GCTCTCCAAA GAAGTGAGCA GCCTGGCCCC TGCTGTCGGA CCTGAGCCTC CTGGCTNNGG 180  
 GNCTGTAAAT ATGTATAGAC CTGTTTTGTC ATTTTTTTTAA TAAAGTCAGT TCTGGTGGCC 240  
 CTGNGACTTT GGNAGGGNAA GGGGGAGGCC ANAAANANTA AANGGGGGGA AN 292

(2) INFORMATION FOR SEQ ID NO: 6371:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 139  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07535

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6371:  
 GATCCACCTG CCTTGGCCTC CCAGAGTGCT GGGATTACAG TCGTGANACC GCACCTGGCC 60  
 AATTTTAATA TTTTAACTGA AGATGTTTCA TATAATATTC AGCAATATAA AAATTACTAA 120

TGACTTTTTTT GGTAAGAAA

139

## (2) INFORMATION FOR SEQ ID NO: 6372:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07536

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6372:

GATCCTAACC GNAGGCCCAT CAATTGCAAC ATAGAGATAC ACATGGAAAG AGGGTTTAAC 60  
 AGACCTCTC TNGGACACAN CTGTTTCTCC TTTGAGCANT ANTTN 105

## (2) INFORMATION FOR SEQ ID NO: 6373:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 151
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07537

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6373:

GATCCAGACC AGCGTCTGGC CCAAGCCATT CANAGGTGGG GTCTGGGGNC TGGGGGTTTT 60  
 GTNTCGTGAC ACTTTGTCTC AAGGAGATTC CACATAGGGA TTTNAATTAG GCTTTCTNCT 120  
 TGCNAAGGCC TGTGGCATCT AANCCTGGCT N 151

## (2) INFORMATION FOR SEQ ID NO: 6374:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 288
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07538

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6374:

GATCTNAGGC AGATAAGAA ACTTCAACTT ATTTNAGAGA GGAGGTAGGG GATGGGGAGG 60  
 TCACAGAGAA CTCTGGGTTT CTNCAGTTTA CTATGCCACA GCACCATATT TCCGGGTATG 120  
 AGTTCTGAGC CCCACAATGG CCATAAGCAC TTAACCACAG ACCTAGTGAC GTATGTATAA 180  
 NATATACACT AGATTCCAAA GNCTTAGTAT ACAAAGACC ATAAAATATC TTATTTGTAA 240  
 TTGTTTAANA CTGATTACAT GTTAANNTGN TAATNTTTN NNTATANN 288

## (2) INFORMATION FOR SEQ ID NO: 6375:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 319
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear



## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07539

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6375:

GATCCTCTAC CCCCGGAATG AGGACACACT TCAGGACCCA GCCCCACTGG AGTNTGGCCA 60  
 AGNATTCTCC CAGCAGGAAA ATGGCCATTN CATGGACACC AATGANTGCN TCCAGTCCC 120  
 ATTCGTNTGC CCTCGAGACA AGCCCGTATG TNTCAACACC TATGGAAGCT ACAGGTGCCG 180  
 GACCAACAAG AAGTGCAGTC GGGGCTACGA GCCCAACGAG GNTGGCACAG CCTGCNTGGC 240  
 TCAAGTGGCC TTTTtaggtg GGTATTCTTC AGCCGTCTCT AGAATCTTN AGCCTCTTN 300  
 TNGGGCCTCA NATCTTTGN 319

## (2) INFORMATION FOR SEQ ID NO: 6376:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 166  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07540

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6376:

GATCTCTGTA TGNTCTGTGT GTTCTGTGT CCTGGAATTG GATGCGTGGG ACTCGTTCTG 60  
 TCCGCGGAGT GCACTCTTTT TTNCAGTGTG GCCCACATAT CTTGTAAATN TTTGCTGAAG 120  
 AGTTGTGTCT ATATATAGAG AAAATATATA TAANCAGAGA AATAAA 166

## (2) INFORMATION FOR SEQ ID NO: 6377:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 158  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07541

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6377:

GATCCAATGC CCTAACTTT ACATAAGAGT TCCGGCAAGG CTGTGACTTC AACTTGTGTT 60  
 GTAAGTCAA CCTGCAGAAT CAAATTTAGG GTTATGTTTT CAGTTGTATC AGTCTTACGG 120  
 CTACAAGATA TTAAAGAGAT TCTTTCCTGG TTATCAAA 158

## (2) INFORMATION FOR SEQ ID NO: 6378:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 323  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07543

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6378:

GATCTCACCT TGTGTGTCAT CATAGAATTC AACTGGACT AAAACCTTTT AAGTGTAAGG 60

ATTGTGGAAA ATGTTTTAGT CGAAGCTCTC ACCTTTATTC ACATCAAAGA ACCCACA CTG 120  
 GAGAGAAACC ATATGAGTGT CATGATTGTG GAAAATCTTT CAGCCAGAGT TCTGCCCTTA 180  
 TTGTGCATCA GAGGATACAC ACTGGNGAGA AACCATATGA NTGCTGTCAG TGTGGGAAAG 240  
 CCTTCATCCG GNAGGATTGN CCTCATTANG CACCNGNGAT TTCATGTTNG NGNAGAGGCC 300  
 TATANTTGTG ATCAATGGTN ANN 323

(2) INFORMATION FOR SEQ ID NO: 6379:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 318
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07544

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6379:

GATCCTTCTA ATCTCCTGGA CCCTCCAGGG CACTCTGGTC CCTATTCCCC AGCTCCTAGG 60  
 CAGCTGAGCC GGGTCCCTTA GGGGAGGTGA CCAGGAGCTT TGGTGCAGGG AGCTCTTNGT 120  
 GGGGCAAAGG GCTGGACCCC TGCCAGGTCT GTGGACATGG TTATATGCCC GGNNGAGGGG 180  
 GGTACAGGGC CCCAGGGATG GCCCCAATC CCACCTCTGT TTATTCTGTA AACTGCAACC 240  
 TATAAATAAC CTTTAGCATT CCTATTTGTA ACAAATTNG NNTTTNTGNA AATAAATTAT 300  
 ATTCCTAGT CTAAAAAA 318

(2) INFORMATION FOR SEQ ID NO: 6380:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 77
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07545

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6380:

GATCTTCTCT GCCTTTATTG TTTTGCCATT TCACTAAAAT ATGTTTAGAG ATATATAAAT 60  
 NCTGCTTGGA CTCTAAA 77

(2) INFORMATION FOR SEQ ID NO: 6381:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 32
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07546

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6381:

GATCTCATTT TACAAGAGAA TCTCTCTGCA AA 32

(2) INFORMATION FOR SEQ ID NO: 6382:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 83

- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS07547
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6382:

GATCTCTAAG TGTAGCTGTA AATTTTGGGG TTAATTTGGC TTATATTGGN CCTTTTAAAA 60  
GNAATAAAGT TTTTAAATGC AAA 83

(2) INFORMATION FOR SEQ ID NO: 6383:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 74
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07548

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6383:

GATCTATAAA GAAACATAAG CTAAAGTTG TTTATCACTG TGGTGTTAAT AAAACAGTAT 60  
TTTCAAAAAA TAAA 74

(2) INFORMATION FOR SEQ ID NO: 6384:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 342
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07549

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6384:

GATCCAGACC TCTCTAATAT GAAGAATAAT GAGCCTTATN ACTATAAGTT TGTNAAATGG 60  
ATGACTAAAC ATAAGAACT ATCAGCCATC CCCGTTTCAG CATTCTGTAA CTCAGAGACT 120  
AAATCACAGT TTGAGAAGTT TGTNCGTTTT TCCTTCATTA AAAAAGACAG CACACTGGAT 180  
GCTGCTGAAG AAATCATCAA GGCATGGNGT GTACAGAAGT CTTGATTGT GCAGAATGGN 240  
TTAATGTTTC TGTTAGATGA CCTAGTATGG NATTGTNACT TAGTGCTGCC ACCTGCTGGG 300  
ATGTTAANNG ANTGTNGGAT GCGTGGCCTG GCGGTGNNNG CN 342

(2) INFORMATION FOR SEQ ID NO: 6385:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 118
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07550

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6385:

GATCCTGTGT TTTGAGTCCC AAAGGCCATG CCAAGGATTG GCTTTGGNTG GCTTTAATCA 60  
 CCAACCCATC AACATCAAGC CTCCNCCAGG CCGGTTCAAA TAAATGTANT TAAATAAA 118

(2) INFORMATION FOR SEQ ID NO: 6386:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 277
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07551

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6386:

GATCCAACAA ATTAACCATA TAAGCACAGA AAATAGAGAA ACACAGTTAT TGAATCTACT 60  
 CTTGTCATTA ACATTTTCAA AAAACAAAAT GCATATTGTA ATATTTGGTA CATGACACTT 120  
 GCATGTTGNT ATGCCTATAT NCTTGCAAAG NATTCAATGT GTACTTAGCG GCGNTTAAAN 180  
 CTATGTCATG TACAACNTT ATAAGCNTT TTNCNGGGGT CCCATTTGCC CTTTCATCTT 240  
 CAGTAAAGTC TTTGTCAGGN AANNGTTGTN TGTTAN 277

(2) INFORMATION FOR SEQ ID NO: 6387:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 102
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07552

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6387:

GATCCAGGGA TGGGAATGGG AGTGGGTAGG AGGGGTAATG CGGTCATTGG AGTCGGGGGC 60  
 TGGAACATTA TGAGTGCTCA ATAAATATAA ACTAATGAGA AA 102

(2) INFORMATION FOR SEQ ID NO: 6388:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 338
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07553

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6388:

GATCCAGAGG TGGGTGCAGC TGAAAGTAAA CAGAATGGAT TGCCAGTNAC ATGTATGCCT 60  
 GCGCAGTTCC CTTTTNATTT GCAGAAGCTG TGAGTTTTGT NCACAATTAG GTTCCTAGGA 120  
 GCAAAAAACC TCAAGGATTG ATTTATTGTT TTCAACTCCA AGGCACACTG TTAATAAACG 180  
 AGCAGGGTGT TTTCTCTCTT CCTNTCTAAT ATATGGAGTT TCGAAGAATA AAATATGTGN 240  
 GCAATATTTA AATTCTCAGG AATTGNCTNA TACTCTTGNG GAATGGANTT CAGTTTTCAN 300  
 TCANGNTTTA CATTTNTGGT GGCTTAANAA NCNTTGGN 338

(2) INFORMATION FOR SEQ ID NO: 6389:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 245
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS07554
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6389:

```

GATCAGTCTT TTGAAATTGG GATTCTAAAT TAGAATGAGA GGAGGAGCTG CTAAAGCATA 60
AAAATGGTAG GGGTGATTTT GGTNTTTTAT CCTAGTGACC AATGTTGACC ATTAATTGTA 120
CATTATAAAT AATGTTTTTCN TCTGGGACTT TTTGCACTTA ANGCTGGTAA TTNTNATCAT 180
AGGGCTTCAA ATACAAAAGA NTTGTATGCG GTNTTCAGAA AATAAA.CATG CTCTTGCAT 240
ATAAA 245

```

(2) INFORMATION FOR SEQ ID NO: 6390:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 345
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS07555
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6390:

```

GATCTTNACG CGNCTGGGGG CGAAGATTTT GCCATGGATG AGGATGGGGA CGAGAGCATT 60
CACAACTGA AAGAAAAAGC GAAGAAACGG AAGGTTCCGC GCTTTGGNTC CGAAGAGGGG 120
TCCCGAGCGC GGATGNTGAG GNTTATNACA GCNTGGAGCA GGATGGCGAT GAACCCGGAC 180
CACAACGCTC TTTTGAAGGC TGGATTCTNT TTGTAAGTGG AGTCCATGAG GAAGCCACCG 240
AAGAAGNCAT ACACGTCAA TTCGCAGANT ATGGGGAAAT TAAAAACATT CATCTCAACC 300
TNGNCAGGCG TTCCAGGNTA TCTGGAAGGG GGTNTNCTCT NGTCN 345

```

(2) INFORMATION FOR SEQ ID NO: 6391:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 343
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS07556
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6391:

```

GATCCCCTGC TGGTCTCTGG CAGTCTCCTT GATTTTGGGT ACCATGTATA TTTCCCGCTT 60
TNACTTTAAC GCTTTCTAGG ATAGGGTAAG CACCCTTAAT TCAGGCACCG TCCATNAGCT 120
TCCTTTGCAA AGGCTACTTA TGGCCGGTCA CAATCCAGCA CTCAGACAGA GCCAAGGCAA 180
TATCCTCTTG CCCATGGCTA TNATGTCAGA CAGTGGATGG GCTCCAGCAA CAAGAGTCAA 240
AATAACTAAA GGCCTTTGCT CTCCTCTGAC ATTGAGGCCT GGGGCTTACA GTTTGGAATA 300
CAACATGTGA NGGTTTTTGN TNGTTGTTTG TATTATTGNA GAN 343

```

(2) INFORMATION FOR SEQ ID NO: 6392:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 185

(B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07557  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6392:  
 GATCAAAAAT TGTGGCCATC TTTGCAAATN ACTACCTNTA GCCTGTNAAA ATACATTTC 60  
 AAAAATGTTA TGTGCAATGA AACTAAATT NAAGAGCAGT TACAGTGTGA CTCATCATG 120  
 TTTAAAAAAN ATCGAAGAGC TAAAAAATAC GTCTAATTTA TGTAACCCNT TGGNATGTAT 180  
 TNNTN 185

(2) INFORMATION FOR SEQ ID NO: 6393:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 68  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07558  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6393:  
 GATCATTTCT TGTAATGTTT TGAGAGTAAT GCATACAGAA ATATAATAAA NTGTGTTGAA 60  
 ACTGCAAA 68

(2) INFORMATION FOR SEQ ID NO: 6394:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 163  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07559  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6394:  
 GATCCCCATT GTGTATGANC TGAACAAGGA GCTGAAGCCC ACCAAGCCCA TGNAGTTCCT 60  
 GGGTGATGAG GAAACGGTGC GGAAGGCCAT GGAGGCTGTG GCTGCCCAGG GCAAGGCCAA 120  
 GTNAGGGGTG GGCTTGGGCA ATAAAGGCAC CTCCCCAAC AAA 163

(2) INFORMATION FOR SEQ ID NO: 6395:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 275  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07560  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6395:  
 GATCAACTCC CACTCATCCT GCAGATTTAA GCTTGGATGT CACCTCCCGA GGGACGCTGT 60

GCCTGCCTCC CTCGTCAGAG CAGGTGTTGT CATCTACTCA CAGAATCTGG CTCCTTCCA 120  
 CAAAGCACCC CCGTGAGCAT CTGTTTAACA TTGTCTCTCC ACCTAGACTG TAAGGTCCGT 180  
 GAAAGCAGGG ACCACACCCA TTTGTGCTCA CTTGGGACCT ACAGCCTCTA ATCCAGAGCC 240  
 TGACACAAAC CTCAATAAAT ATTTAAGGAC TGAAA 275

## (2) INFORMATION FOR SEQ ID NO: 6396:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 131
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07561

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6396:

GATCCGGGAC CTTCANACCC AGGGAAAGGG TGAGGGAGAC TGGGGCCTGG TCTGCTTTCC 60  
 CGGGCCTGAA AGCTTCCCCG AGGTTTGCAG GGTCAAGNAG GAGGAACGGT GGGGGNNGGC 120  
 AGTCACTGNN N 131

## (2) INFORMATION FOR SEQ ID NO: 6397:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 359
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07562

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6397:

GATCCATTTA AAACAAGCTG ATAGTGTTTC GTTAAGCAGT ACATCTTG TG CATGCAAAAA 60  
 TGAATTCACC CCTCCACCT CTTTCTTCAA TTAATGGAAA ACTGTTAAGG GAAGCTGATA 120  
 CAGAGAGACA ACTTGCTCCT TTCCATCAGC TTTATAATAA NCTGTTTAAC GTGAGGTTTC 180  
 AGTAGCTCCT TGGTTTTGCC TCTTTAAATT ATGACGTGCA CAAACCTTCT TTTCANTGCA 240  
 ATGCATCTGG NAGTTTTGAT ACTTGTA ACT TTTTTTTTTT TTNGGGGNNN ANTNTTTNNG 300  
 GGNCCAGGGG TTTTTTTTNG GAACCCCTTG GGCNNTGGCC CNGGGGTACC CGGCNAGNN 359

## (2) INFORMATION FOR SEQ ID NO: 6398:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 61
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07563

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6398:

GATCTCTGAC GATACCTGTA TGTTCTTATT GTGTAAATAA AATTNCTGGT ATGAAATNAA 60  
 A 61

## (2) INFORMATION FOR SEQ ID NO: 6399:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 367  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07564  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6399:  
 GATCCTGTGG GAAAGAGAAA GGCATCCCAG AAGTTTGA CTGTTTTNCTT TTAGAATCTG 60  
 TCTCTGCAGG AAAGAAAAGT CATTTTAATA AAAACCAAAA TAATTTATAA TAATTGTNGC 120  
 CTTTCCCTCC CCATCCTCTC CACTAAGCCA GCAACTAAAT GTATTCAGAA AACAAGTTAA 180  
 TCAAGGAGGG CAGAAGAATT TTTTAAAC TGTAAGAAAN TGTTCTAAG TTTAGATTTA 240  
 TTACCTGTCA TTTAGGGCAA AANTCCAGTG TCCCCAGCAC ATGGTGACCC AACTNTGTCT 300  
 CACAGTTGCA AAGTGTGTTG GAAAATAAAG TTGCTTTGTG NACTTNGNGG GNAANNCNNT 360  
 NANNNNN 367

(2) INFORMATION FOR SEQ ID NO: 6400:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 379  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07565  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6400:  
 GATCAGGAAC CAAAAAGAAG AATGTACTTC ATCTGGTTGG GCTGGATTCC CTCTNATAAG 60  
 CCTTCCAGT TGACTGAAAG ATGAGGCTAG GCTCTAGCAA GTTGAAGTCA AACCAGCTCC 120  
 TTCAAGAAGC TTTGAGCAGA ATGAAGTGGG GAGGACCCAG CTTCCAGCCC AGGAAGCCCA 180  
 CTGTACCTGG AGCCATCTGG GATAAGACTT TGACCCATGA CTCCCATATC CACAGCCTGT 240  
 CCATCCTAGC CCATCCCAGT TTATCCTGTA TCATTTGAGC TGGGNTTCCA CATCCTCTGA 300  
 GTTGGTAGTC CCATNTCAAG TCNTTNAATA AANGNCTNTT TGGANTATTT GANTTCACAT 360  
 TAAAAAANA ANAAAGGCN 379

(2) INFORMATION FOR SEQ ID NO: 6401:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 225  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07567  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6401:  
 GATCGGGGTA TGAAGTGTGC ACACGCAGCC CAACAACGGG CAGTGGTCTC TGTGCTCCTA 60  
 GGCATCCAGC ACAGGTTCTG GCAGGGCACC CCTGCTGGGG TTGGGGGCTG GTCTGTGCAT 120  
 AATCCTGGAC TGTGATGGGA ACAGCCAGT GCAGTCTAAA CTTCAATTGT GTTGAACTA 180  
 CTTTAATAGA CAAAGTAATA AATCATGTTT ATCTATTGAT TTAAA 225

(2) INFORMATION FOR SEQ ID NO: 6402:

(i) SEQUENCE CHARACTERISTICS:



(A) LENGTH: 60  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07568  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6402:  
 GATCTTCAGT TGTATTTTNG TGAATATTTT AATACATCTT TTTCAATTTC TGAAAACAAA 60

(2) INFORMATION FOR SEQ ID NO: 6403:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 176  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07569  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6403:  
 GATCCGGTGC TACGGGAAAC ATTTTCCTAA GATGCCCATG AGAACAGACC AAGATGTGTA 60  
 CAGCACTATG AGCATTAAAA AACCTTCCAG AATCAATAAT CCGTGGCAAC ATATCTCTGT 120  
 AAAANCAAAC ACTGTAACTN CTAAATAAAT GTTTAGTCTT CCCTGTAACC TTCAA 176

(2) INFORMATION FOR SEQ ID NO: 6404:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 360  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07570  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6404:  
 GATCTTCCCT GCGGCCTCTG CCCTGGCCTG CTTCCCAGCA CACACTTCTT TGGCCTAAGG 60  
 GCTTCTCTCT CAGGACCTCT AATTTGACCA CAACCAACCT GGGCTTCAGC CACATCAGTG 120  
 GGCACCTGGAG CTGGGGTGCA CATGGGGCCT GCTCACCTTG CCCACACATC TCCAGCCAGC 180  
 CAGGGCCCTG CCCAGCTTCA ATTTACAGAC CTGACTCTCC TCACCTTCCC CCCTGCTGTC 240  
 CAGAGCTGAA CATAGACTTG CACTTGGATG TCACCTGGAG TGTNACATGG GAGTGTATG 300  
 GCAGCATCAT ACCAAGGCCT ACTGTTGCAC ATGGGGCCAA AACCAGTAAA CAGCCACCTN 360

(2) INFORMATION FOR SEQ ID NO: 6405:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 32  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07571  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6405:  
GATCTNACTA ATAAATGAAG GGAAAAAGGA AA

32

(2) INFORMATION FOR SEQ ID NO: 6406:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 219
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07572

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6406:

```
GATCTGGTCA TTTAAAAGTG TGTGGCACCT CCCCACCACC TCTNTCTCTC GCTCGCTTGC 60
TCGCTCCTGC TTTNACCATG TNATGTGCCT GCTCCCCCTT TGCCTTCCGC CATGATTGTA 120
NGCTTCCTGA GGCTTCCCTA GAAGCAGATG TCAGCATTAT GCTTCCTNTA CAGTCTGCAG 180
AACTGTGAGC CAATNAAACT TCTTTCCTTA TAANTTAAA 219
```

(2) INFORMATION FOR SEQ ID NO: 6407:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 347
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07573

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6407:

```
GATCCAGTTA CATGTATTAT NNTTTTCCTA CCTTATGGAC TATTTTGGAG GGATAAGCTA 60
TTAAGACTAA GACTATGNGT GANAGTNGGG GAAGGAGCAG GAAGGGAGGA ACCTGCACAC 120
CACATTGGAA CCNGCACACC ACATTAACAC AAAGGCAATC TTCTGGCTCG GACTGTTCTT 180
TACTACTGTN CTTAAAGAAA ATGTTTCATT TGCTGCAGCT ANCTAGCCTC CATCTNCTAC 240
ACCAAATACT ATTCCATGCC ATGGAAGTGC TATGCAATAA CTNTCCCAGG TAGGCACCTT 300
ATACCCGCTT AAANAGNCTT TAAANATNTG CANTTTTGGT NGGNGTN 347
```

(2) INFORMATION FOR SEQ ID NO: 6408:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 208
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07574

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6408:

```
GATCACTCCT TATTTGCTGT TATTTTNGTN CTCTTAACCA TACATTTCCC AATGTTTAAA 60
GGGTGGTATT TNGAGAAAGT NAATGGGTTT TGTAAGTGCC AGCNCCTTTAT ATAAGCAGGT 120
AGACTAGCTT TTNCCCAGCA GACGCTTGTC TGTNTAGACT TCCTTAAAN AATTATCTTC 180
AAATAAAGCA AAATCTCCAT AAAANGNN 208
```

(2) INFORMATION FOR SEQ ID NO: 6409:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 318  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07575

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6409:

```
GATCCATAGA CTTAGCAAGT CTTGCCTTAT CTATGGAGCT CGATGGTGAG AATTGTNACC 60
ATTGTCTGAT GTCCATAGTT CCTTCCCCCT AGATTGTTTC TTCCACGGA TTGTGTTTCAT 120
CTGAACCATT NNATTTTAA TTTACCAAAG TACTGTACTT GGCTATTGTC AGTGTTTTCA 180
AAACCAAATG TTTCTNTTTT GGTGTTTTTA ATCTCCGATA CTTGGTGCAA TAGAAGCTGC 240
AAAGATGTGC CACTTNATCT ATGAAATGGA GTNTGTATA CCAATAAATN CTAGTTTAAA 300
AACANTTNAN NANNNNAN 318
```

(2) INFORMATION FOR SEQ ID NO: 6410:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 233  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07576

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6410:

```
GATCTGTAA GGGGTGGATA ACATAATATG CAGCTTAGGA TGCTATTTTA AGATGTATGA 60
TATTCAGTTC ATTCACCTGA TTACTTTGGT TGCAGCACAA CTGTATATAT NGTATAACCG 120
AAATTGATTA TTTNCATTGT CCTTAATGCA GTGATTTATA ATTNAGCAT GTTTAATAAG 180
TTTNCCTTC TNGTTAACTA GTCATTTGAC TGGNAANNNA TAANATNCTT TTN 233
```

(2) INFORMATION FOR SEQ ID NO: 6411:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 105  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07577

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6411:

```
GATCCACGA GGACCACTNT GTAATTGNCA GGGGGCTTCC AGNNAAGACA CTGAACCCTG 60
AAGCCGTGGT CTGGGGCAGG GTGGTGGGAG AGGTGGGCGG GGGNN 105
```

(2) INFORMATION FOR SEQ ID NO: 6412:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 101  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07578

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6412:

GATCACCTTC CCACTTCATC CATCCCCACC CTTCCAGCTC CCCATCCATC CTGCTGAAAG 60  
CATTTCACC ACTCAATAAA ACCTCGCATT CATCCTCAA A 101

(2) INFORMATION FOR SEQ ID NO: 6413:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 332  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07579

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6413:

GATCAGAAGG AATCCGNCGA GGCAGGGATG GGTGTGCCCA TGTNTGCCTT GACGGGACTT 60  
CATCTTATAG ACTGTAAAC TGTCACACAC AAACAGGCTT TCCACCCCTG CTCTGNNGNC 120  
ACCACGCACA GNTTTCAGT TCTTAGTGTG GCTGTTTAAA GTAGAAAATC TGGGGGCTGG 180  
GTGAGGCCAC TCATGCCTGT AACCCAGGGC TTTAGAAGGC TGAGGCTGGG GGGNTTGT 240  
GAAGGTCAGG AGGTTCAAGG CCCAACCTTG GGAACCATAG GCAACNACCC CCCATNNTNT 300  
NCCAAANTNG AAAAANCCAA AAAGGNNAAC CN 332

(2) INFORMATION FOR SEQ ID NO: 6414:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 129  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07580

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6414:

GATCTACCAG CATAAATATC TNCTNATTTG TCCCTATGCA TATCANTTGA GCTTCATATA 60  
CCAGCAATAT ATCTNAAGAG CTATTATATA AAACCCCAA ACTNTTGATT ATTAGCCAGG 120  
TAATGTGNN 129

(2) INFORMATION FOR SEQ ID NO: 6415:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 257  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07581

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6415:

GATCTAGAGG AATTAGTCAT GACATCAAGA AAGGAGTCTA AAGAAGAGAA AGAAAATCAA 60  
GATGAAAGAG AAGTAAAGA AGANGAACAA GAAGAAGAAG AAGAAGTCAG GTCAGCAGAA 120  
ANTTCCTCAA ANTCTCCAAA GAAAGGTCAC TGATTCCAAG GCANCCTGTG GNAAGANGAN 180

TTCAGATGTC AGTGGGAGCC TCCAGGTGGG NGGNGAGCAT GCCTAANCCC TGGTGGCCAT 240  
 TGTNCTGTAC TANGGAN 257

(2) INFORMATION FOR SEQ ID NO: 6416:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 138
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07582

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6416:

GATCCACAAG GCTTCTGTAT ACAGTTCACG GTCCTCGGCA TTGCTTCTNG TAATTTTNCC 60  
 ATCCCAAAGG AGAGCTACTG TACTGACTGT ACTTGTGGAA TNCAGCGCTT CATTAAATTA 120  
 AGTTTATTAA AATGCAAA 138

(2) INFORMATION FOR SEQ ID NO: 6417:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 331
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07583

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6417:

GATCTAATGG GACACGGCCA GTGCCTAGGG GTGCCAAGTC CAAGGCCTCC CACTGGGNGT 60  
 AATCGCTGAG AAGATGCCAA TTTTTCATCC ACCGGCTGCA CAGGCACAAA CTCCCCACC 120  
 CAGGACGGCT GTNATGAGGT GGCCCTCCCT NTNAACCCTG GTCCCTGGAG TCCCCAGCAC 180  
 CTGGGGCCCT GGTGGGGCTG ATGTCACAGG TGTTTACTGT GCTGCTGCAC TGGTCTATG 240  
 NCAGCTTAC CCCATGTGGG GACCACGGAA GGNACAATNC CTTACCCCCG NTTGCCGGGN 300  
 CCGTGCGGTN NNCAAGANGG GNCAAGGANG N 331

(2) INFORMATION FOR SEQ ID NO: 6418:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 337
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07584

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6418:

GATCCAGCTT ATCCTTTAAT TTCAAAGTCC ATTCTTGGGG CTGGTGGGGA GGCAGGAGAA 60  
 TACCCCTCCC TAAGCCCTTA GTGTGTGCCG AGCTTGCTTT GTNATGTTGG CAGGGGAGGG 120  
 GAGACCTGGG TGGTGACTGA GTTCCCTTTA TCAAACCCTT CAATGGGCAC AAAATTNAGT 180  
 GCTTGATTTT ANGTTTNAT TTTTNNATGA ATGTCCAAA TCTGTGTTTC CCCNNTGCCC 240  
 TCCCAAGANN TGTGTGGGCC AGTTGAAAGT GTCTTGTTTT TGTGGTCAT CTTTTCCCTN 300  
 AATTCTGGA GCANGGNCCC TGAGNNCCNT GCCANAN 337

## (2) INFORMATION FOR SEQ ID NO: 6419:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 350
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07585

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6419:

```

GATCATGGAT GTAGCATACA CAAAATCCA CCGAGACCTT TGCAAAATNA GGCTACTTGT 60
TTNATTTTGC CAGATTATCA TGGGAGAGTC TTAACTAGT NCTGAATATT TGTAAGTCTG 120
AGTACTTCAT AGAATTATAA AGAAGGTACA GCTGACCCCT TCTCACCATG TNGTAAATAT 180
TTCCTGAGAC TGGGTGCAGT ACTGAGGGAT AATAATCTCC TGNTTTATCA AATCCTGACT 240
GTCTAGAGCA ANTTGTACAC TCTCTTTGTG AATGGTCCTG TAACGTGTAT GNNCACATTT 300
NTGGGTGCCT TAGANGTNGT NTTTTNCATG TGTGCTAATN TGCAGTTTCN 350

```

## (2) INFORMATION FOR SEQ ID NO: 6420:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 362
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07586

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6420:

```

GATCCAGGGT CTNAACCGCC GTGGGACGAG GAGGGCATCC CGGCCACAGC AGGGGCCGAG 60
GAAGAGGAGG AGACAGAGGG GAAAGGGGAG CCGGCCTGAC CCACACCCCC GGCCATCGCT 120
CCCTGGGCCA GGTTTAGAGC AGGGAGTTTG GCTGGTGCTG GGCCTGAGCC AGGGGGCCGG 180
GACACCCTTG TTTCCGGTGG TCTTCCCGTT GTGGGAGCAG GTNGAGGGTG GAGACCTAAA 240
CTTTGGGGTC CAGCTGCCTT CAGCCCNCT CCNCCAGACT AACAGACCCT TGGAGGCAGG 300
GGCTGTGGAA ATAAATCTTT GCCTGNTGGG NTAAAAAATA ANTATNANNT GTGNNNNGTT 360
GN 362

```

## (2) INFORMATION FOR SEQ ID NO: 6421:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 114
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07587

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6421:

```

GATCTNCTCT CCCACCCACA CTTATCTCCC CCAGGGCCAC TCCAAAGTCT ATACACAGGG 60
GTGGTCTCTT CAATAAAGAA GTGTTGATTA GACCTGAATT TCTCCACCTA TAAA 114

```

## (2) INFORMATION FOR SEQ ID NO: 6422:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 62

(B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07588  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6422:  
 GATCTTTGCT ACTGGAGTCC TTTAACAACA CCTATAACGA TAAAAAATTC CTAATTNTTA 60  
 AA 62

(2) INFORMATION FOR SEQ ID NO: 6423:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 96  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07589  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6423:  
 GATCCTTCAT ATTTAATTAA AAGTGTTCAT TCAGGTAAGG TGTATGTTGA AATTTTNCCA 60  
 ATNATCTTAA TAAAACCTGG CAATTTAAAA NCCAAA 96

(2) INFORMATION FOR SEQ ID NO: 6424:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 88  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07590  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6424:  
 GATCTATTTA TNTAAGTATG TAGTAAACAA TATCTNAAAG TGTCCGATTC ACTACTTGTA 60  
 AATTAAAAAA GTNATGATTA ATGTGAAA 88

(2) INFORMATION FOR SEQ ID NO: 6425:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 314  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07591  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6425:  
 GATCAGAAGA AGCTACAGTT TTNTTTTAA CTTGAAAAAA AATTAAGAAG TATTAAGGAA 60  
 AAAGCTTAAT ACTCTGGAAA CCAGACATCT GGTCTTTCTC ATGCGTAGGG AGCAGTGTA 120  
 ATGAAAGTGA AGTCAAACGG ACAGTTTTTT NCTGCATTAT GCACAAGGTG TTTTAAATTG 180  
 TCAGCTTAAG GTTAGATGA NGATAATCTT TAACTTTGTT TACAATTTTG NCTATTNGC 240

ATTATCCCCC TTTTNCCTATA AAANNTAANG TGAATATGTG TGCATATNNN TNTNGAGTCA 300  
 NAATTAAACT TATN . 314

(2) INFORMATION FOR SEQ ID NO: 6426:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 91
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07592

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6426:

GATCCTGTGG TGTGTATATAA AAATGAACAG CTAAAAATTT ACCCATGACA AGATTAAAGC 60  
 AAAAATAAAC ACAAAGTTGT TAGACTTTAA A 91

(2) INFORMATION FOR SEQ ID NO: 6427:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 122
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07593

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6427:

GATCTTGTGC TATAACTTTT AAAGCCATAC AAATAAGAGT GCTAAACTNT GGACTTAAAA 60  
 GTAGGTGTNT AAATATTTTT AATCAGTATT ACTTGGAAAA TAAATATATAA CAAACCCATA 120  
 AA 122

(2) INFORMATION FOR SEQ ID NO: 6428:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 293
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07594

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6428:

GATCCTAACC CCTGCAGGGC TCAGGGGTCA GCAGGGACCC ACTGCCCCAT CTCCCTCTCC 60  
 CCACCAAGAC AGCCCCAGAA GGAGCAGCCA GCTGGNATGG GAACCAAGG CTGTCCACAT 120  
 CTGGCTTTTG TGGGACTCAG AAAGGGAAGC AGAACTGAGG GCTGGGATAT TCCTCATGGT 180  
 GGCAGCGCTC ATAGCGAAAG CCTACTGTAA TATGCACCCA TCTNATCCAC GTAGTAAAGT 240  
 GAACTTAAAA ATTCAATCAA ATGAACAATT AAATAAACAC CTGTGTGTTT AAA 293

(2) INFORMATION FOR SEQ ID NO: 6429:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 209
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single



- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS07595
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6429:  
 GATCTGAATT TGTAAGTTAT TAATGTGAAA GGGGGAGCAG GAAGCTCCCC GTTTGCACAA 60  
 AGGGGGATTT GTTTGCACAA AGTTCACGT AAATACTGTG AGANTNGANT TCTGAAAAGG 120  
 TCATATTTAG TGATTTCAAA AGCACACATT TAANTGANGA CTGACTAAAT AANAGGTACC 180  
 ACACACTTCT NGGTTGGTTT CATTCCAAA 209

(2) INFORMATION FOR SEQ ID NO: 6430:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 200
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS07596
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6430:  
 GATCTCCCTC AGTNTGCCCC CAGCCCCCAA ACTCCTCCTG GCTAGACTGT AGGAAGGGAC 60  
 TTTTGTGTTT TTGTTTGTGTT CAGGAAAAAA GAAAGGGAGA GAGAGGAAAA TAGAGGGTTG 120  
 TCCACTCCTC ACATTCCACG ACCCAGGCCT GCACCCACC CNCAACTCCC AGCCCCGGA 180  
 TAAAACCATT TTCCTGCAAA 200

(2) INFORMATION FOR SEQ ID NO: 6431:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 131
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS07597
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6431:  
 GATCTNATTC CAGGATTGCT CAGAAATTGG AAAAAAATC ACCTGTGCTT CCCAAATTTA 60  
 TTTCCCAAGA CAAAGATGTC TATAGCACAG AAAAAAATGC ATGANTTAAA AAATCAAGAT 120  
 GTATTATTAA A 131

(2) INFORMATION FOR SEQ ID NO: 6432:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 42
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS07598
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6432:  
 GATCCTGAGC TGTCCCATTA AACATGGCCC TGTCTCGGTA AA 42

## (2) INFORMATION FOR SEQ ID NO: 6433:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 332
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07599

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6433:

```
GATCCACTAG ACAGTTTNCA GTTGTCTTGG AGGTANCTGG GTAATCAAAA ATGTTTAGTC 60
ATTGATTCAA TGTGAACGAT TACGGTCTTT ATGACCAAGA GTCTGAAAAT CTTTTTGTNA 120
TGCTGTTTAG TATTCGTTTG ATATTGTNAC TTTTCACCTG TTGAGCCCAA ATNCAGGATT 180
GGTTCAGTGG CAGCAATGAA GTTGCCATTT AAATTTGTTC ATAGCCTACA TCACCAAGGT 240
CTCTGTGTCA AACCTGTGGC CACTCTATAT GCACTTNGGT TTA CTCTTTT ATTNCAAATA 300
ANTATACTAA AAGNCTTTAA ANNANGNNNA NN 332
```

## (2) INFORMATION FOR SEQ ID NO: 6434:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 224
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07600

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6434:

```
GATCAATACG GGTCTATTTT NATGTCAACT GAACACTGTA GGGTACCTTC CAGTCTTTTT 60
CAAGATTGTN AAATTGAGAC AAGTAATTGA ATAATTTGTC CTATTTTAAAT TTTAAAAAAA 120
GTGAATGGNC TGAAATGTTA AATGTGAATG TNCATTTCTN AATTGCAACT TTNCTACTGA 180
GTGTTTGCAC TATACTTNCT GGAATCTNAT TTAACAAANN TANN 224
```

## (2) INFORMATION FOR SEQ ID NO: 6435:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 188
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07601

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6435:

```
GATCAAAAAG CACAAAGAGC TGGGGCAGAG GCAGGAAGCA GGGGCCCTCC TGGCAGCTCC 60
TCTNAGTGGG GAGAGGTTGG GCAGTGAGTG AGGGACCCCT AATGCAGGGN CTAGAAGCCT 120
CANTTTCCCC NTTTTACCCT TCCACACAAT AGCCTCTGTA GGNNAGGCTG CCCCATNCCA 180
CCNGGNTN 188
```

## (2) INFORMATION FOR SEQ ID NO: 6436:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 256

- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS07602
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6436:

```
GATCTAGGAC TAANACTTAA AATGTGGTTG GAATCTCACT CAAGGCCTAC CCACCTAAAA 60
CTGCGTTCTA GCAATTGCAT GCTGACTGCA CCTATGAGTC GTAAGNCTGT AGTTGCAAAG 120
TGTGTCTAGT TTNANATTCT TTCTAAATAC TGGTACGGGN AACAGGCATT CCAGNACTTG 180
TGGCTTGCTG GNGGTGGTNT GAGTNATGNG GAATCTTGGG AAGGGGTTCC TGCCCCTGGG 240
ANTTGGGGGG TTTTNN 256
```

(2) INFORMATION FOR SEQ ID NO: 6437:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 240
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS07603
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6437:

```
GATCCAGGGC CTTTNAACA TCCCCAAGT CATGGCCATA CTCACCATTA GCCAGTTTCT 60
AACATCTGTT TCAGGTATC CAGCTGTAGA TGTTCTTATC CCCCATACTT GTGAGTTCTT 120
GGGGTTGCTC ACAAATACTA GGGGTTTTTG TTGTATTTTT AACAAANTATA TCCTAATGTC 180
ATATTNATNC TCTTTTGTA CTGCTGGTCT TTACANTAAA GGNGTCATCT GCCTTTCAAA 240
```

(2) INFORMATION FOR SEQ ID NO: 6438:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 125
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS07604
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6438:

```
GATCAGCACC CTTCTCCACA TCCACATGAC TGGTTTTTAA TGTAGCACTG TGGTATACAT 60
GCAAACATCC GTTCAAATC TGAGTCGGAG CTAAAAATAA AAAATGAAAA ANCAGAAATA 120
AGAAA 125
```

(2) INFORMATION FOR SEQ ID NO: 6439:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 321
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS07605
- (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6439:

```
GATCCGCCTG CNTCGGCCCTN CCAGAGTGCT GGGATAAAAG GTGTGAGCCA CTGTGCCTGG 60
CCACTCCCTT GAGACCCAGT TTCCACGTCT GTNAAATGGG GGAATACCCA CAGTGAGAAT 120
TAGATGAGAT AGATGCATTT NAAACCACAA ATCGGGGTGC CCACCTGTGG TGGGTAGTTA 180
GGGTAGCTGT TACAAAGTGC CCCAGCAGAG ACCCCCTTGA CTAACCTTNA TTCTTCCATC 240
TTTTCCCACA GGTGGCAGCT GCCAACAAGA AGCATTAGAA CAAACCATGC TGGGTAAATA 300
AATTGCCTCA TTCGGTANTG N 321
```

(2) INFORMATION FOR SEQ ID NO: 6440:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 123  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07606

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6440:

```
GATCTTTGTC CAGAAAATAA AGCTTTCTGT TGATTTTTTC TTTAAGCAAG AGGTAAGGAA 60
ATATGCACTT AAGANTATGT GTACAAGAAA ATAGTTTCTA AAATAAATTG AAATGTCTGC 120
AAA 123
```

(2) INFORMATION FOR SEQ ID NO: 6441:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 284  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07607

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6441:

```
GATCCACTCT GGACACTCAA CAAGACCTGA ACAGGATTTN CCTACCTGGT CCTTACACTA 60
CATCATCATC ATCTCATGCC CACCTGCCCC CACCCAGCAG AGCTTCTCAG TGGGCACAGT 120
CTCTTACTCC CATTTNTGCT GCCTTTGGNC CTGCCTGGCC CAGCCTGCAC CCCTGTGGGG 180
TGGAAATGTA CTGCAGGCTC TGGGTCAGGT TCTGCTCCTT TATGGGACCC GACATTTTTN 240
AGCTCTTTGC TATTGAAATA ATAAACCACC CTGTTCTGTG GAAA 284
```

(2) INFORMATION FOR SEQ ID NO: 6442:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 215  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07608

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6442:

```
GATCTGGTAC GNGGTGGACG TCATGGCCCC ANATGCCAC GGNAACACAG CGCTGACCTA 60
CGACCGGCAG GCCTCCAGCC ATGGAGTGCA TCAACGTGCT TCTNCAGTAC GGCTGCCCCG 120
```

ACGNGTGTGT ATAGTATCTG TTTTATTTGA CTGCAGTCTC CTTGGTGCAA AANCAAANTG 180  
GGGAANNATA GGATAACTCA GNATTTCAAA AGGAN 215

(2) INFORMATION FOR SEQ ID NO: 6443:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 61
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07609

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6443:

GATCTNAGAC TTCTCAGTC CAGAACTGTA AGCAATAAAT GTCTGTTGTT TATAAATTAA 60  
A 61

(2) INFORMATION FOR SEQ ID NO: 6444:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 75
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07610

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6444:

GATCCTTGCT CTACCTGGCT AGAGTTTCTN CTCATCAGAG CACTGGGACA TTAAACCAAC 60  
CTTTTACAAC ACAA 75

(2) INFORMATION FOR SEQ ID NO: 6445:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 207
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07611

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6445:

GATCTCAGCT CAGAGAGAGA GCATGAGGTC TTTTCTAACT GTCAGGAAAC AGAGCTGTGC 60  
CCAATTCCAC TCAACTTTTG GCACAACGT TAATCTGGGC CTTACCTAC CTAAACTGA 120  
GTTTCTGCAA GCATAGCATT TTAGACACCC TGAATAACC TTTTGGGAAT GATGCCACAG 180  
AATAAAGTTC ACTCTTAACT TTTCAA 207

(2) INFORMATION FOR SEQ ID NO: 6446:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 307
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07612

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6446:

```
GATCTGATAG TGGTAGGTCT ATCAGGAATA TCAGGNAAAA TNCTTTTAAT GTTGTGGCA 60
AAGTCAATTC CTATCATTTG TACTTGACAC CAGCTACCTA GCAGGCTCAT TGTGAACCTC 120
AGGTTTCGCC CACGTTATTT ATATAAAGTA TCTCAGTGTA ATATAGGGAG TTGCTGGTTA 180
TTTGAAAATA GTAACAAAGG TAACCCAAAC GAGAACTCC ATTTCCATAA TTNGCTTTCC 240
TGAAAGTCAG GCATGTCTTT GAGGACAGGT TTTGGCAGTA TTNNNTNGT GCACAGNGG 300
GAAATTN 307
```

(2) INFORMATION FOR SEQ ID NO: 6447:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 219  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07613

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6447:

```
GATCTGCCTG TTTATTTTGG TGGGTGGTCT TTCCTCCCTC CCCTACCACC CATGCCCCC 60
TTCTNAGTCT GCCCCTGGCC TCCAGCCCT AGGGGACTAG CTGGGTGGG GTTCCTCGGG 120
CCTTTTCTCT CCTNCCTCTT TTCTTTCTGT TGATTGTCGC TCCAGCTGGC TGTATTGCTT 180
TTNAATATTG CACCGAAGTT TTTNAAATAA AATTTTAA 219
```

(2) INFORMATION FOR SEQ ID NO: 6448:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 272  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07614

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6448:

```
GATCTGGTGT AGTATATTTT ATCGCATTTT CTTATATTAA AAAATGTCTG CATGATTACA 60
TTTTATTTCC TTTGTAATTT ACATTTTACA ATAGTGTATT GCTATATGGG TGCCAAGATT 120
GANTATGAAG AACCCGAGTN TTTGTAGTAT TATAGTTTAA AGCAAATCTG TGTGGTGATA 180
CAGCCATAAG ANTGGGGCTT ATATAANCTC TGTACATGTA AGATTTTGTA CAGAGAATTT 240
TTAACTTTAT AAATTGTATA TGANCATGTA NN 272
```

(2) INFORMATION FOR SEQ ID NO: 6449:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 300  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07615

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6449:

GATCCACCCG CCTCAGCCTC TGAAATTGTT GGGATTACGG GCGTGACACN CGCGCCTGGC 60  
 ATGTATATCA TTTTNNATTG TGTATTTTGT AATTTTGTGTT TGTNAATTTA TTTTAAATAT 120  
 AGTTTTCAAT TTAAGTTGTT AGTTTCTGTA GTGGCAAATC CTTGTGTTTG CAATATTGGA 180  
 TTATTTCTCC ATAAGAGTTT CACATTTCTC CTGCTAGGAA ATCCATGGGG AATATTGGAA 240  
 TTGGGCTAGT TTTAATNNNA TNNCTAATGT TTAANGGTTT TGAAAAANAT TGGCGNCAAA 300

## (2) INFORMATION FOR SEQ ID NO: 6450:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 286  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07616

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6450:

GATCTCCACT TTNCCAAAGG GCTGCNAGAG GTGATTGANA AGAACCGGCC TGCTGATGTN 60  
 AGGGCGTCCA CTGCCCCCAC ACCGTCCACA GCAGCTGTCT GAGCCCTCAA TCCCCAAGCT 120  
 GGCAGCTGTC ATTCAGGACC CCAACCCCTC TNAGCCCTC TTTTCCCACA TTCATAGCCT 180  
 GTAGTGCCCC CTCTAACCCC CAGTGCCACA GAGAAGACGG GATTTGAAGC TGTACCCAAT 240  
 TTAATTCCAT AATCAATCTA TCAATTACAG TCCGTCCACC ACCAAA 286

## (2) INFORMATION FOR SEQ ID NO: 6451:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 97  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07617

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6451:

GATCTGTGCA GAGAGAGATG GCAGCCACTC CCTTCAGTCC TCCCAGATTT CTGTAGCTAT 60  
 TTATGTAGCA GGCTCAATAA AATGTCTTCT CTCTAAA 97

## (2) INFORMATION FOR SEQ ID NO: 6452:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 113  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07619

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6452:

GATCNNAGGC ATNNTTCTT CAGTCAGAGC ATTCAATCCT CAAGCCATTC ACACATTTAG 60  
 GCCTCATGCT TTNTCCTGTC TTTAATCACA TCCATTTCTT AACTCATTG AGN 113

## (2) INFORMATION FOR SEQ ID NO: 6453:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 118  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07620  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6453:  
 GATCATAAGT CATTCCCCTC CCCTTCCAGG CCTCCTGCTA TATTGGGGG ACCTGACTNG 60  
 NTTNGCTGGA GTCCCATGAG GATGTGGGCC CNTTAATAAN GGATAGCAAA CAGGCAAA 118

(2) INFORMATION FOR SEQ ID NO: 6454:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 233  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07621  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6454:  
 GATCCCAAAA TCCAAGGATG CTTCAATCC CTTATATAAA ATGGCATGGT ATTTGCATAT 60  
 AACCTACATG CATCTTCAAA TATGTTAAAC CATCTCTAGA TTAATTATAA TACCAAATAC 120  
 AATGTAATGC TATGTAAACA GTTGTTACAA TGGATTGTCA AAGGCAAGCT CTNCTTGCCC 180  
 ANTNGGGGCC AANTGNNGG TNCATGAGCA AATTAANTNN NTGCTGGTAT TTN 233

(2) INFORMATION FOR SEQ ID NO: 6455:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 253  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07622  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6455:  
 GATCCGAATT TCCTGCTCTA AACCTCCAC TGCTTTCTGC TGTTTCCACT GAGGAAAGAG 60  
 GATGTGTGTC ATTAAAGCTT TGTGGGACC TGTCACAGTC AAGGTGGGTA TAATTATGTT 120  
 TAATTTATTG AAGTGTTTCT GGGCATCGTC TTTTCAAAT TCATATATNC TATCCAGAAG 180  
 ANGTGNATTC ATTNNNCATT ATNAAAAAN ATAAATATT ACCAGATAAA GCTCANCAT 240  
 NCNCTCTNCC CCN 253

(2) INFORMATION FOR SEQ ID NO: 6456:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 44  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07623  
 (ix) FEATURE:



(D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6456:  
 GATCTTTCCT ATCAGTGTA TAAAACTCA TATTATGGCA GAAA

44

## (2) INFORMATION FOR SEQ ID NO: 6457:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 320  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07624

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6457:

GATCAGGCAG GGTGCCATTN ATTGTCTTTC TCTCCTAGCC CCCTCAGGAA AGAAGGACTA 60  
 TATTTGTA CT GTACCCTAGG GGTTCCTGGAA GGGAAAACAT GGAATCAGGA TTCTATAGAC 120  
 TGATAGGCCC TATCCACAAG GGCCATGACT GGGAAAAGGT ATGGNAGCAG AAGGAGAATT 180  
 GGGATTNAG GGTGCAGCTA CGCTCACCCT AAACCTTTTGG TGGCCTGGGG TATGTCTTGA 240  
 GGCCAGACT GTTAAGCAGG CTCTGCTGGC CTGTTTACTC GTCACCACCT CTGCACCTGC 300  
 TGTCTTGAGA CTCCATCCGN 320

## (2) INFORMATION FOR SEQ ID NO: 6458:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 179  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07625

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6458:

GATCCAAATN AGAACAGATT GGTATTGCA GGTATCACAG CCTAAAGAAA TTATCTTTTT 60  
 GCAAAAGAAA TATTAAATGA TTTAGCAGTC TCCACGTGTG TTAATGTTTC AAACGTGTAT 120  
 CATAATGTGT ATAATTGTGT AACAAAATTG TCTACAATAA ATCTNTTGGT ATTTGTAAA 179

## (2) INFORMATION FOR SEQ ID NO: 6459:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 337  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07626

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6459:

GATCCATTTCG CCCAAGGGG ACAACGGGGT GTNAGNGGAG TAAGGGGTGG AGGTAGGGGC 60  
 CAGAGGGGCT TACACGATAT CCCATACCTT TAATGCCTTT GGCCTTCCAT TCTNATTTN 120  
 CTNATGAGAA TATTGCTGGC CCTGCTTTCC CTGGTAGGTA TTTGCCAGGC CCAATGCTTT 180  
 AACCTTAAGC TGATACTTTG CTTTAGATGT CAGTCTCGTT ACCAGCAGCC TTTTGACCCA 240  
 ACTACGGCGC TCTATATTTA AGTNGAGGGA TTTTNANCCA TTGTGCATGG NAAAAAGNTG 300  
 TTCATGGGTA CNATNGTAAG NAAANNTAAA ANTTTTN 337

## (2) INFORMATION FOR SEQ ID NO: 6460:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 101
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07627

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"-unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6460:

GATCGGTTGN GNCATGGAGT GGGGGCTTCC AGGTGGACCT NCCCGGCACA CATTCCATTT 60  
 NTTGAGCCCC AGTCCTGCCC CCCACCCNAC CCTCCCTACC N 101

## (2) INFORMATION FOR SEQ ID NO: 6461:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 138
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07628

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"-unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6461:

GATCCTTCTT GGTAGTATT ACTTGTNCCG GAGCAATTCT NATTCCTCGT TTAGACATTG 60  
 NNATTTCTT CGTTGGAGCT GTGAGCAGCA GCACATTGGC CCTAATCCTG CCACCTTTGG 120  
 TNGAAATNCT TACATTTN 138

## (2) INFORMATION FOR SEQ ID NO: 6462:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 172
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07629

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"-unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6462:

GATCTNATTA GNNTAGTAAT GTTTTCCTT TAAACAGATT CATCATTATC CCTAAAGTAT 60  
 TGCTGTATTA ATACTGTCTT CTAGAAAGTA TACACCAGTN CCTACTTTCC TCCGATATCA 120  
 TTAGCTGTTT TCNGAAACTN AATTCCTCT TCAGAGATTN CTCATATGTN TN 172

## (2) INFORMATION FOR SEQ ID NO: 6463:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 239
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07630

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6463:

```
GATCCACAGA GTTCATAGGC ATGATTAAAT GGTAGTAGTT TTCCACCACG AAGTTTTGGA 60
ATAATTTGTC ACAAAGCAAT ANGGAATTA GAAAAATAAC CTTTCAGAAG GAGACAGTTT 120
CTCCAAAGCT TGGGTACTTT CGCTTAATAT TAAANAGTGG ANGGAATTTT TTNCTGCCA 180
GNCAAAAGGC AGNAGGTGTA TTTCTACACC ATGGNTAGGC AANTNNTTTT TTNCTTAN 239
```

(2) INFORMATION FOR SEQ ID NO: 6464:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 213  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07631

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6464:

```
GATCTGCATT TAGCAATGTG ATGTCAGTAA ATGGACATAA CAGGATTGTT GTAAAGGTTG 60
GGCATGATGT ATGCAAAGTA CTGGCCAGGG TAGACTAATA ACTGATGGCA TTTATATGCT 120
GTGCTGGAAT ATTGTTACCA AGCTGATGTG CCGTTCTCAC CCNGGGNGAA TACTGGTTTT 180
GTCATTTTCA AAATGATATT TTTATAANTA AAA 213
```

(2) INFORMATION FOR SEQ ID NO: 6465:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 329  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07632

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6465:

```
GATCTGGCCA AGAATGAGGC CCTCCAACA CTTTCACTCC CTCTCCAAGC CTTGATGGGA 60
CCTCCACTTA TTTAGGCCN ATGTGCTTTG AAGAAGCTTT GAGAGCCAAT NTGTCTTCCA 120
CGGGTCTCTT TTTTGCTACA AGTAATCAGC CCCATGTNTT CTCTTAACT GAGAATTGCA 180
CCGGGGGCAA TTCCTGTTTT CTAAGGTGGT CTCTGCTGCT ATTTAACAAC CCAGAGTAGG 240
CCTCTGTNAG GCTTCAGTGG CCTCAGAAAC CAGAGGGTCC AGATAGGGGG CCTGCTTGGG 300
CCCTCTGCTG NCAAACTGCT TAAAANTTN 329
```

(2) INFORMATION FOR SEQ ID NO: 6466:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 236  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07633

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6466:

```
GATCCACGTG TGTGGCCATA TTGTAACACA TTTTCTGCA AATNACCTCT TTCATTTAAC 60
AGCCCTTATT CAATGGCCTT TTNCTTTTTC AGTAGTACAT ACACATCTGT GTCATTNGTT 120
```

GAATGACGNC ATGAATGTTT TGTAGATAAA ATATAATTAA ANGNTTTTAA GCATTTCTNA 180  
CTCATAGATA TTNATGTTAG CACCAAATTT GNTGTGCAAT GANCCTCCCT ANATAN 236

(2) INFORMATION FOR SEQ ID NO: 6467:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 239
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07634

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6467:

GATCTATGCC TTAGTGTGTG TTTTNTTGTC TGCTTTGATG TAAAAGCAAG AGTATTTGGA 60  
GCAAGAAGCT GCAATGCGCC AAATACACAN TAGGCCTTTC NTTTATCATT CATACGACAT 120  
TTCTGGTTTA GGTGTATGTA GTTGGGCCAT GTTACTTGTC CAGAGGAAGA GNCTAAAGAT 180  
ATACGGNTAA TTTTTTAGTC CNTAATGCTG TTTTGNTTAC NTNCTNTCAN GGTTATTTN 239

(2) INFORMATION FOR SEQ ID NO: 6468:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 82
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07635

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6468:

GATCGAGCAA TTGCAATCCA GCCTGGGCAA CAGAGCGAGA CTCCATTTCA AAAAAAGAAT 60  
CAATAAAAAT GTTAAAAGCA AA 82

(2) INFORMATION FOR SEQ ID NO: 6469:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 348
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07636

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6469:

GATCCGTAAG GCCATGACCA AGGAGGCCAT CCGAGAGCAC CAGATGGCCC GCACTGGCGG 60  
CACGAGACAG ACCTGTTCAC CTGCGGCAAG TGCAGGAAAA AGAACTGCAC CTACACACAG 120  
GTGCAGACCC GCAGCTCTGA TGAGCCCATG ACCACCTTTN TTGTCTGCAA CGAGTGTGGA 180  
AACCGCTGGA AGTTCTGCTG ACCCCTTGTT TAGATGTGCT GCAGCCTTNG GCCTTCNCGG 240  
GCCACGTTCT TCGTTGACAN AGGTTNTNTT GGGGNCCCCT AGGAAGGCGG TATGTNCCTN 300  
GCCNTTNAAN CTTGNCTGGN TTGGATTGNA NCTTTTTTGN CCTTTTTN 348

(2) INFORMATION FOR SEQ ID NO: 6470:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 178

(B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07637  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6470:  
 GATCGTGAAA TCTAAGGCTG CTTGATGTTT TGATGCTTGT NAATGCCGTC GTGCTCTGTG 60  
 ACTCCACGAA ACGCCAAGGA GCTTCTTCCG GACGNCCTCT CTCCTCTGT AACATACGTG 120  
 TGAATAGTCA AGGTTTAATT TTNCTTTAAT CTAATAAAGT CGAAGTGGGA CTNTTAAA 178

## (2) INFORMATION FOR SEQ ID NO: 6471:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 50  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07638  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6471:  
 GATCCAGCAC ACCTCCTCGG TTTTTTTTTC AATAAAAGTT TAGAAAGAAA 50

## (2) INFORMATION FOR SEQ ID NO: 6472:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 108  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07639  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6472:  
 GATCTCTGTG AAACAAAATN AAGCAAGAAC GGAGACGCTG AATAGTTTTA TTTCTNTATT 60  
 AGAAACTGTG ATTGGAACAA TTGAAGAAAT AAAATCATAA CAGAGAAA 108

## (2) INFORMATION FOR SEQ ID NO: 6473:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 210  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07640  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6473:  
 GATCTGAAGA AAGCAGCAAT ATCTGTNACT AGAGAACATT CCCATGTTTT TAAACTCTTC 60  
 ANTTCTTAGA TGCATTTAAN TTCTTAATGC AAATNACGTA GCAATTTGAA AACTTCTCCG 120  
 TATTACTNGT GTTTAAATG TCTTGCTTTA AATACAANNC AAATGGTAAA GGGGATTATC 180  
 TTTGGTTTAG ATGGTTAANT ATNATTTNGN 210

## (2) INFORMATION FOR SEQ ID NO: 6474:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 307
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07641

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6474:

```

GATCAGCAGG ACTGTCTCCA GCACGGAGCT GACACTGTTC AGCTGCCTCA ACTGGTAGAC 60
GCTCCCAAGA AGTCAGAGGC AGCNGTCGGG GCGGAGGTGT CCATNACCTC CCCAGGACAG 120
AGCAAAAAC TCTCCCTCAA GAACAGAAAC GTTTTACCNN CTATTGTATG ACCTTTGCTG 180
AGGGTATGTC CTGCTCCTTT CCACCACTGA TTTGTATTAA GNCAGCACTT ATATTGTACA 240
ATACTTCAGN CTGTTTTTTT TAAATACATA AACTTTTATG TTAAAAAACT CTATTANCAT 300
GGGCAAA

```

307

## (2) INFORMATION FOR SEQ ID NO: 6475:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 140
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07642

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6475:

```

GATCACAGGT TAGGGGTTTC TCTAGATGGG GGTTCGAAA TTTGCAGTGT CTGCTCCTGG 60
GAGGCAGCAC CAGAAAGGGC ACTGAAATGT ACTAGCTGGA TGTNACCCAG TCTTAATAAN 120
CAGGTTTCT AATCCAGAAA

```

140

## (2) INFORMATION FOR SEQ ID NO: 6476:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 187
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07643

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6476:

```

GATCAACTTT GTATATTCAC GTGTATTAAA ATATTGTGCA CTAAATGTTT TGCCCTTGTT 60
TGCTATTATA TGGTCAAGGC ATTTATCAGC ACTATTGTAA TGAATCATG TAAGTGGCAT 120
GGGTCAGGGA AAATTATTTT CTACTTTNCT GCCTAATTAA ATTNCTGTTT TCCAGTATTA 180
CATTAAA

```

187

## (2) INFORMATION FOR SEQ ID NO: 6477:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 113
- (B) TYPE: nucleic acid

(C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07644  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6477:  
 GATCTTGAT ATTTNATTTT TAAAAACTA GAATAAACAG AGAGGCATAA NCATATCTTA 60  
 GAGTCCAAGT GGTAGTGTTC AGCATTGGAT ATAATAAATG GATGTTTTAC AAA 113

(2) INFORMATION FOR SEQ ID NO: 6478:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 276  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07645  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6478:  
 GATCTCATT TGGGCTAAAA TAAGACAATA TTCAAAGGTC AGAGATATCT AGCCAGAATC 60  
 TNATGGAGGC TGGATTTTCAG ATTTTNTNAC AGAATTAGAC AGAGGAACAC AGAGGGGACA 120  
 GGCTCAGTTA GGGTGGAGGT GTGGGGTAGG GAAGCAGGNC TTGATATAAN TNATTGGAAT 180  
 CATTGTCTTT TAANCCAGTG GTTTATGTCA GGGTATAGCG TTTCANGGGA TTTGAGGGTC 240  
 AGATGGGGNA ATGTAGCCTC TTATTTTGCC AGTGTN 276

(2) INFORMATION FOR SEQ ID NO: 6479:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 160  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07646  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6479:  
 GATCTGTCAC TGTNTCCCGT CAGCCTTGA TGGGACCGTC TAGTTGCTGG AAAACAAACT 60  
 CAGGGCTCCC ACTGATTCTA CATTATGGTG TGTTGTACAA TTATTTTCATT ATATATNACA 120  
 AGGTAATANT AATAGANATA AAATCCACAG TAANTGCAAA 160

(2) INFORMATION FOR SEQ ID NO: 6480:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 158  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07647  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6480:  
 GATCATAAGT NTTAGGACCA AAGGTGTTTT TAATGAGATA ATCTTTTNA TTTNNTAACA 60

AGAAAAGGAAA TATTCAC TTT ACATTTTAAAC ATCAACTTTT AAGTGATATT CAGANTTAAT 120  
TGACCATGGT GATACGTTGT AAAANGTTTN CATATTAN 158

(2) INFORMATION FOR SEQ ID NO: 6481:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 112
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07648

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6481:

GATCCAAAAA AAAAAAAAAAC GAANANAATT NATCCTCACA AATTGGTGTT CTAAATATCT 60  
TAAGANCCTA ATTAAATAGC TGACTACAAA AAAAAAAAAA AAAATNCAAA AN 112

(2) INFORMATION FOR SEQ ID NO: 6482:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07649

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6482:

GATCCTGTGT GGCCGGTGTT TGCATCTTCA GTGGCCACAA GCATAATAAA GCCCCTTTGC 60  
CTTTCTCTGT ATTATATTCA ATACAATACA TCAATAGTCT TGAAA 105

(2) INFORMATION FOR SEQ ID NO: 6483:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 252
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07650

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6483:

GATCAGATTT AAAGNCTGGA TTCTATCTAC ATAAGTCCTT TNAATTCCAC CAGGGCCAGA 60  
GCAGCTCCAC CACTGTGCAC TTAGCCATGA TGGCAACAGA AACCAAGAGA CACAATTACG 120  
CAGGTATTTA GAAGCAGNGG GNCAACCAGA AGGCCCTTAA CTNTCACCAG TGCATCACAT 180  
CTGCACACTC TCTTCTCCAT TCCCTAGCAG GGGNGGCTAG CTCATTTNAC NGGGTNNAGA 240  
ANCTGAGGNC CN 252

(2) INFORMATION FOR SEQ ID NO: 6484:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 36
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear



(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07651  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6484:  
 GATCACGNGT AAAGAGAACT GTTTCCTGCC CTTAAA 36

(2) INFORMATION FOR SEQ ID NO: 6485:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 125  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07652  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6485:  
 GATCAGCCTC ATCAATATTG CCGTCATCTG TTTAACACTC CCAGTATATT TCCTCAATGT 60  
 CTGTTTACTT AAAATTTTGT GGAGTGACAT AATTAATAAG NAATAAAGTC TGAATTATAC 120  
 ACAAA 125

(2) INFORMATION FOR SEQ ID NO: 6486:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 128  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07653  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6486:  
 GATCCACACT GGGGNGAAGC CTTATNAGTG TACGANATGT GGGAAGAGCT TCAGTCAGCA 60  
 TGCGGGCGCTC ANCTCCCAACC AGAGACTCCA CACCGGNGAG AAGCCATATA AGTGTAAGGN 120  
 GTGTGGGN 128

(2) INFORMATION FOR SEQ ID NO: 6487:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 329  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07655  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6487:  
 GATCCAGAGA GCTTCCTGAA GGACCTGTTG AACTCAGTCC CCTGACCACC ACACAGCAGC 60  
 TGCGGCGGCG AAGAGAAGCT GGCTTGCCTT CCACCCTCTG TTCTCCCTCC TTGTGCATTA 120  
 AGTTCCTCC GNGGGATGCT GCATTGGTAC CCAGCCCTCC NCTATCTCAT TTTTCTTGGN 180  
 GTGGCTTGGG GTTTTATAGC TTCCNGTTTT ATCTCGTGTG TGTGGTGCAC CAGCTATGAG 240  
 GTTGTCTGTA ANCNAAGCCA TCAAAGGGNC TNTAAATANC TAGGNGCCAT GAGTNGTCCC 300  
 GGNCANCTTT CANAACTTGA GTNTGANAN 329

## (2) INFORMATION FOR SEQ ID NO: 6488:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 101
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07656

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6488:

GATCTGTACT GTAATTTTGT TTGTAATCCT GTATATNATG GTGTAATGCA CAATTTAGAA 60  
 AACATTCATC CAGTTGCAAT AAAATAGTAT TGAAAGTGAA A 101

## (2) INFORMATION FOR SEQ ID NO: 6489:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 215
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07657

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6489:

GATCATGTAT ATAATTGTAA CATCACATTG ATTTTACGGA AGATGTTATA TGGNCTTTAA 60  
 TGACACAATG TTTAGNGATA AAATGTACAT TATTTTGGTT CAGTTTTTTA AAAAANNTAT 120  
 GCTTTAACAA AATTCTTAGG AATNCTTTTA AGCAATGCAG GTATTGCGAT ANCTGTAGNT 180  
 TTTACAATAA TGTTACTCTA CAGNTGGGAN AATNN 215

## (2) INFORMATION FOR SEQ ID NO: 6490:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 364
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07658

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6490:

GATCTCTTTG TATTCTCTC AAGCCCAAAC CAATTCTGTN CCTTCAATCT AAATAGTGGT 60  
 AATATGAATG TTTAAGAAAT GAAATAAGAA ACATGTGCAG GCACTTTGGA AGGTGCTAAG 120  
 TGAATGCCCT AAGGAATGAA AAGCAAGGGC CAGGTGGGAG TAGCCCAGCG AAGGCACTTG 180  
 GGCTGCCAGG AACAGGNGGC GTGGGAAACT CTGGCTTAGG NAAACATGAA CACNGGGGCA 240  
 ACAGCGGCAN ACTGTTGTTT GAGTTAAATC TAANTCTCAG GCTCTTTNAC GGTAAANGGG 300  
 TTANGGATAC TCCATTNNGA TGAAGANAAG NGTGAGGCTG ANNGTAANGC ACATGGCAGN 360  
 TNNN 364

## (2) INFORMATION FOR SEQ ID NO: 6491:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 85
- (B) TYPE: nucleic acid

(C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07659  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6491:  
 GATCTTCTT CTCCTTTAAG CTCTTTGTTA ACATTTCTCT AGACGCAATT TATTGAAAAT 60  
 AAAGATTNC TGTTTACTCA TGAAA 85

(2) INFORMATION FOR SEQ ID NO: 6492:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 122  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07660  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6492:  
 GATCCTCATT TATGTTTGTA GTTGGAAGC AAAGCTAGGT AGCCATTCT TCTGTTCTAC 60  
 CAAGTTATAA TAGCATT CAT TTCCCTTTAT ATTTCCCTGA AATAAAGCAC ATTCCACTTA 120  
 AA 122

(2) INFORMATION FOR SEQ ID NO: 6493:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 362  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07661  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6493:  
 GATCCTACAT TAAGTTCATT TGTNAGAATG ATGTTTGTGT TTGTNTAGAG TTGGCTGACC 60  
 TCCAACNT GGGGTCAAGG AATCCTACTG CCTNAGCTTC CCAAATAGCT AGGACTATAG 120  
 GCATGCACCC GGCCATGTGT TTTATTTATA GCTCTTAAAG CCCAGATGAA GAAATCACAT 180  
 TTTNCCCAT AGTGAAGAAA CATTGCGCA TTGCTTAGTC CTTNNGGGGG GTGNCTGTCC 240  
 TGTTTTCATT AGATTAGNGA GACCCTGTGT GGGCCACAGT TAATATANNC CATTATCACT 300  
 TTTAAGGTAA CCTGCACATC TTAGGTTTCA TAATTNCCTT ATTGTTCTNG NCTCAAANTT 360  
 GN 362

(2) INFORMATION FOR SEQ ID NO: 6494:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 328  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07663  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6494:

```

GATCGGGGCA CTGCAGGGGC CGAGCCATTT TGGGGGGGCC CCCTCCTTGC TCTGCAGGCA 60
CCTTAGTGGC TTTTTCCTC CTGTGTACAG GGAAGAGAGG GGTACATTTC CCTGTNCTGA 120
CGGAAGCCAA CTTGGCTTTC CCGGACTGCA AGCAGGGCTC TGCCCANAGG CCTCTCTCTC 180
CGTCGTGGGA GAGAGACGTG TACATAGTGT AGGTCAGCGT GCTTAGCCTC CTNACCTGAG 240
GCTCCTGTGC TACTTTGCCT TTTGCANACT TTATTTTCAT AGATTGAGAA GTTTTNTACA 300
GAGANTTAAA AATGNAATTA TTTNTAAA 328

```

## (2) INFORMATION FOR SEQ ID NO: 6495:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 351
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

```

(B) CLONE: HUMGS07664

```

## (ix) FEATURE:

```

(D) OTHER INFORMATION: "N"=unidentified base

```

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6495:

```

GATCCTGTTT CTACCAACAC TGCACCTTAT CCCAGGAACC TGCCCTAGAC CTCCAGAGAC 60
CATATTTNNT CTCCTCCAT TTCTACCCAG ACCTCCAGGC CTCCTTCTGG AATNATAGAA 120
CCGTAGAATT GGAAGGAATT TNAGAGGGGN TCTAGTTGGA GTTGTGTCCA ACAGAATTCA 180
TTAACACCAG CCTGGGCTTG TTTTTCCTCC TCCCTCTGGA CTTTTTAAT CTTTTCCTCC 240
ACCTCAAAAA ATAATTACAC ACAGATTCTT CTTGTACAGG CATCAAAACC AACTNCTNTG 300
CCCCTAAGGC TGTGTNNGNG TGGTNTCCAG NNANCCNTAC CNCAGTCANT N 351

```

## (2) INFORMATION FOR SEQ ID NO: 6496:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 122
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

```

(B) CLONE: HUMGS07665

```

## (ix) FEATURE:

```

(D) OTHER INFORMATION: "N"=unidentified base

```

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6496:

```

GATCTGGTAG GGGAGAAATG GCGAATGTAA TACACATGAN ATGGTATATC CTTGCAATGT 60
ACAGTATCAG AAGGTGGTTT GACAGCATCA TAAACAGGCT GACTGGCAGG AATGAAAACA 120
AA 122

```

## (2) INFORMATION FOR SEQ ID NO: 6497:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 227
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

```

(B) CLONE: HUMGS07666

```

## (ix) FEATURE:

```

(D) OTHER INFORMATION: "N"=unidentified base

```

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6497:

```

GATCANTTGC AAACCTCCCC CAGCCCCTAC CATCCAATNT GGACGGAAAA CANGAACTGC 60
CTGAAGAAGA GTCCAAGCTA CAGATACACA GCGTGTGCAT TGCGGCTGTC ACCTTCCTNC 120

```

TNCCACTTCT GTATCCTCAG AGATGCTGCG TGGATGTTTC CTTANCCCTCA GCTGACTTCC 180  
CTGTGAATNT CTAATGCTAG TTCANGGGCC TNCNGGAAAT TGANTTN 227

(2) INFORMATION FOR SEQ ID NO: 6498:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 238
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07667

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6498:

GATCTTGCCC TTCTCACTCC AGAGGCTAGT GGTCACAGAC AGCTGGGAAT GGCAGCCACA 60  
GAGGGTCCCC TCTGGGAGAA ACAGCTTCAC CCCAGCCTCA GGGCCCTGGG CCATCACTGC 120  
AGTGGCCCTG GGAGGTGAGG AAGAAGCTGG CTAGAGGAGG GGGCTCCAC CTACCTTTTA 180  
TTTAAGCCAG TATTCTTTGT TCCTGCTTGT AATAAACTT CAGTTTATAA GAGTTAAA 238

(2) INFORMATION FOR SEQ ID NO: 6499:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 142
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07668

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6499:

GATCTGTCAT AACTCATTTT AAAGTGTAAT ATATGCCATA TGAAGAGGGN TTAAGAGGCT 60  
GNGAACTCA TATTTCAACC AAATCCAGCA TTAGTTTTTC TTAGGTCTAA TANTTCCTNG 120  
TTAATAAAGA TTAAATGCA AA 142

(2) INFORMATION FOR SEQ ID NO: 6500:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 160
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07669

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6500:

GATCTGTCAT TGTCTCCCAT CACCCCCAAA TGGGCCCCCTC TCGTTGCAGG AAAACAAGCT 60  
CAGGGCTCCC ACAGTTTCTA CATTATGGTG AGTTGTATAA TTNTTTCATT ATATATTACA 120  
ATGTAATAAT AATAGAAATA ANGTACACAA TNNNTGTAAA 160

(2) INFORMATION FOR SEQ ID NO: 6501:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 266
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07670

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6501:

```

GATCTGCCCCG AGACTCCCAG AGGGTAATGC CACTCCCACA ATCTCAGGCC TGGTACCCAT 60
CCTNTTTTCCA CTGTGAGCAG AGCCAGAAGG TAGGTCTNTT CAGAGTCTGT NNCCCTGGAC 120
CTGGGGNGTG GATATGANAT GGGATATCTC CTTCCATTCC CCGNTCCAGG GGAGAGTCAC 180
TAGTTGTACC CTACTCCATT AGGTCCCAA TAGGGGCCCA ATTCACCTG TATNAGGNTC 240
TGTGCATNCC AGCTGCCNNA AATNTN 266

```

(2) INFORMATION FOR SEQ ID NO: 6502:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 119

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07671

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6502:

```

GATCCAGACT TAGGGACGAG GCTGTCACTG GTGGGCACCC TCTGTTCCCTG TTTGTGTGTT 60
TGAATAGTCT GAAATNCTGT GACTTTTTTT GTGTGAATAA AGNTATGAAA CTTCTGAAA 119

```

(2) INFORMATION FOR SEQ ID NO: 6503:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 90

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07672

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6503:

```

GATCTTCGTG TGAGCCGCGN CGTCCGNCGN GACCGAGCTG CCTTCGCGTG CCCCCGNCCT 60
GTGTTTTATA AAAAGAAAGA TTCTCGGAAA 90

```

(2) INFORMATION FOR SEQ ID NO: 6504:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 62

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07673

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6504:

```

GATCTGTCAG TGTATCAAAA CAACATAAAT AACTTTGAAC AACTGATACG CAAAAAACA 60
AA 62

```

## (2) INFORMATION FOR SEQ ID NO: 6505:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 72
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07674

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6505:

GATCAAGTTT GGCAGGTTT TGTCACCAAG CTTTGTAAT AACTGGTTT TCATAGCTTT 60  
 TTGGAGATGA AA 72

## (2) INFORMATION FOR SEQ ID NO: 6506:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 221
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07675

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6506:

GATCTTTTTT CAGAATGTTG GAAAATCCTG TAAATGCAAA TAGTCAATAC TGTATTAAAT 60  
 ACGTGCACTT GGNGTNTGCT TCGCTTGATC AGTTGTAAAT AATCAGAACA TATGNAAAAG 120  
 GTACCCTACA GAGGAAATTC TGATACAGAT TATTGCTATA TTATAACCTN TTGCTGTTGA 180  
 GCGGGCTGTA GGTAANCTAA TGTTGTGGTT TGACTATTAA A 221

## (2) INFORMATION FOR SEQ ID NO: 6507:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 42
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07676

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6507:

GATCTTCATT TTTGTAATAA AACGGNAGAC TCATCCAGTA AA 42

## (2) INFORMATION FOR SEQ ID NO: 6508:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 62
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07677

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6508:

GATCTTAGAC TTCCCATCCT CTAGAACTGT GAGAAATAAA TTCCTGTTGT TTATGAGCCA 60  
AA 62

(2) INFORMATION FOR SEQ ID NO: 6509:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 117
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07678

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6509:

GATCTGCCAT CTAGAACTCA TATTCTAAAG GGCAGTGNTT TCTCAGAACA GTGATGTTCT 60  
GGAATATGTA TTATTTATTT TAACACTTTT TTAATAAANT CTTTATTATA AACCAAA 117

(2) INFORMATION FOR SEQ ID NO: 6510:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 113
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07679

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6510:

GATCTGTTTA AAAGATTAAA TCTCAAGTTA ATTAAAAATA AGCTTTTCAA AAATGTATTA 60  
TATTTATAAC AAATATACTG TAAATAGANT AAAGACATGC TATTCAGTGT AAA 113

(2) INFORMATION FOR SEQ ID NO: 6511:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 159
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07680

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6511:

GATCTGTCAC TGTCTCCCAT CACCCTAAGA TGGGNTGTC TAGTTGCAGG GAAAGAAGCT 60  
CAGGGCTCCC ACTGATTCTA CATTATGGTG ANTNGTAGNA TTATTTTATT ATATATTACA 120  
ATGTCAATAA TAGAAATAAN GTGTGCANTA AATGTCAAA 159

(2) INFORMATION FOR SEQ ID NO: 6512:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 219
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07681



## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6512:

GATCAGCCGG AAGAGAAAAT NAAGACCCCA GAGACATTTA TTGGGGAGTA GGATGTGGCT 60  
 GAGTGCTTTT TTTTGGCCA GACTAGCGGA TTCAGTCCTG GAAGAGAGTA TCATATAATG 120  
 AGNCCCACAG GCACTGGCAC CCTTGGGTTG GNAATAGANG NNGNCCATGG ANTGGCGAAA 180  
 ACCAGGGATT CCAGCTGGGG NATAGTANCT TGAAGGTGN 219

## (2) INFORMATION FOR SEQ ID NO: 6513:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 217  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07682

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6513:

GATCTTGACC TACAGTTTGA AAAACAGAGT ACTGAAGAGT CTTGTTTCCT TTATTTAGAA 60  
 CAGTGCAAGG ATGAGTATCT GGGTAGAGTT GTGCGTTGTA CATAACCTTT GATAGTCATA 120  
 TAGTTGAACC AAAAGCAANN TCTGTAGTGN CATTGAAAAA ACATTTTGAC TTGATTATC 180  
 CTGNCAGNNT NCNNTAATTT TTGGCTGGCT AATNCAN 217

## (2) INFORMATION FOR SEQ ID NO: 6514:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 119  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07683

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6514:

GATCTCTGCT CACGTTGCCT CCCTTCATCT TCCTGCATAA GTGGAAGCAG CCTGAAGCCC 60  
 TCACTGTTTC TTGTACAGCC TGCAGAGCCG TGAGCCAAAT AAAGCTCTTT TCTTTTAA 119

## (2) INFORMATION FOR SEQ ID NO: 6515:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 173  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07684

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6515:

GATCTGATGG TTTTATAAGC ATCTGGCATT TCCCCTGCTT GCACTCACTC TGTCTGGTG 60  
 CGCTGTGAAG AAGGTGCCTG CTTCTCCTTT GCCTTCCACC ATGATTGTAA GTTTCCTGAG 120  
 GCCTCCCTGG CAATGCAGAA CTGTGAGTCA ATTAACTTC TTTCTTTAT AAA 173

## (2) INFORMATION FOR SEQ ID NO: 6516:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 238  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07686
- (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6516:  
 GATCACCATG TNAGCCTTAG ACCAAGAAGC TGGCTAGTCC TTNCTGTGAA GCTAATACAA 60  
 TNGNCATTTT CAGACAAATT TAAAGGNAAC ACTAAGGCTG CTTCAAAGAT TATCTGATTC 120  
 CTTTAAAATA TATGTCTATA TACACAGGCA TGCTCTTTT TTAAGTGCTT ACATTTTAA 180  
 AGAGATGANT CAGTTTNGA ATCTANGCTG TTTGCCAAG NTGANGCTNC CAGGGTTN 238
- (2) INFORMATION FOR SEQ ID NO: 6517:
- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 289  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07687
- (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6517:  
 GATCTGTTTT TNACCACTTC ACTGAAAGAC ACCATTTATC TACCCAAGGG CAGAAAGTAG 60  
 AACTTACTAT TCATTAAATG TTTGACACAA TTGGAATTGT CTTTAATTTT TGTCAGAATG 120  
 CTATTGAAAA TGTGAATTGC ATGACTTGGT AGCATATTCT TTTCTGCAA AAATAGGCCA 180  
 TATTAACCAT GCTTATGACC ANTGNCTGT GCTACTGGCT TTTGGNAAAA ATGGTTTGCN 240  
 TCAGNTTGGG GAAGTAATNA AAGGANTNCA CCTGGNGNCC CNNGAATAN 289
- (2) INFORMATION FOR SEQ ID NO: 6518:
- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 236  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07688
- (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6518:  
 GATCCCCCAG GATTCTATTN TGTTTAATGG GCTTTTCTAC TAAAAGCATA AAATACTGAG 60  
 GCTGATTTAG TCAGGGCAAA ACCATNNACT TTACATATTC GTTTTCAATA CTTGCTGTTC 120  
 ATGTTACACA AGCTTCTTAC GGTTTTCTTG TAACAATAAA TTTTTGNGT AAATANTGGG 180  
 TACATTNTAA CAAACTCNGT AGTNCAACCT AAACNGTAT NAACGGTGTG TAAAN 236
- (2) INFORMATION FOR SEQ ID NO: 6519:
- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 157  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07689  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6519:  
 GATCAGGTCT GCTTTNAGTT TCATTTTTGT TTCTTTCCCG TCCCACTCTT TAAAACTGG 60  
 TTCCGTGAGA AANGGCAGAA GCCGTTCCGT GTCTCTTGCA GGCTGGGCCG NCTTCATGNA 120  
 GTNCGAGGGC GTNCCGTGAC NACGTACATA CGTATGN 157

(2) INFORMATION FOR SEQ ID NO: 6520:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 195  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07690  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6520:  
 GATCTTTCTG GATATAATGA AGCTTCCTGG AGAAACAGAC TGGCAATCAG AAAGATTG 60  
 CTGCTTCCGA CACCTCCATC TTGGGCCTGC AGAGGCTGCA GCAATCTGTG AGGCAGCCGA 120  
 ATCTGCGNGG CAGNCCACTC TTCTAGGACA TATGGGTTTC ANNAGGCACC NTTTTGCTAN 180  
 GNAGGCATAN TTANN 195

(2) INFORMATION FOR SEQ ID NO: 6521:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 337  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07691  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6521:  
 GATCGAAACC AAGTTATTAT TATCCTTACT GTATTCCATT GCTTGTATCA AAATCTACTT 60  
 TTTTNTAGT AGGAAACTAT GCATTCCCTA TCAGTCCCTT TGATTATCAG GAATGTATAA 120  
 GAATTGTGAT AAAATAGGCC AATATGCTAT TTGGTACCAT TTGTATGTAT TTTANGTGCA 180  
 TAACCTAGGT AAAATAAGNN TAGTTTCTAT GTGTAAAGAA GCAAGTTTTA CAGTATGCAG 240  
 ACTCCAGTGG ATGTATTTTA GGCTGTATAC ATNTTTAAGC TCTNTNTGGT ANATAGGGTA 300  
 TACAAACTAN NTGCCTCNNA ATNCNAATAN NTTCCGN 337

(2) INFORMATION FOR SEQ ID NO: 6522:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 331  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07692  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6522:

GATCATTTC A TGGAATCTTT GAAGTATCTT TGACTCTAAC TTTGACTTGG TGGTGGACCT 60  
 TCCTTGGTTT TANTAAQACC TAAGAGATAT CCTTTAGAAT TACATGTATT TTAGCATAAG 120  
 GAAATTGNAA AAGTAAACA TACTGGTTTT TTTCAACAAG ACCATATGTA AATTAAATAG 180  
 TGAAATGTGT ATGNGTTTTCA GTAGAACTGT ACCATCAACA ATGTTTCCAT AAATATGCAG 240  
 NGTTCTTNCT NNTGTATTGT TATTTACAAT ATTGTTAAAT NGGATGCATT TGCAATNNCT 300  
 CGGNTTCTAA AGNATTGNGG TNCNGANCGT N 331

## (2) INFORMATION FOR SEQ ID NO: 6523:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 107
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07693

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6523:

GATCTGGAAT GGTGTTTTGG TTTGGGGGGA ATTTTTTTTT TTCCCNGGCA AATNACATGT 60  
 GTTGTTGATG TGAGTATCTG ATGAAAAANC AATGNCAGAA TANCCGN 107

## (2) INFORMATION FOR SEQ ID NO: 6524:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 196
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07694

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6524:

GATCTATATA TGTATAAATA TGTATTTTGT CAAATTTGTN ACTTAAATAT ATAGAGACCA 60  
 GTTTNCTCTG GAAGTTTGTT TAAATGACAG ANGCGTATAT GANTTCAAGA AAATTTAAGC 120  
 TGCAAAANTG TATTTCCCTAT AAANTGAGNA GTCTCACTGN TAGCGGTTCT TTATTGCTCA 180  
 TTTTTTAAAA ANTGGN 196

## (2) INFORMATION FOR SEQ ID NO: 6525:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 257
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07695

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6525:

GATCGGCTCT AGAAACACTG CTTTCCCTTC TTTNCTTTTG TTTTCTTTCT NTTATTATTT 60  
 TTTTAAAGAG TAAACGAAAG TNCTGTATGA ATTCCGACCC AGGCAGCAAC CACAGGNCTN 120  
 GGGGTGAGAC CCTCCTCCTC CCAAGNGAGC AAAAAGGACC CATGGCCCCC AAAAAAACCC 180  
 CTCAACGAGA ATCCTCAGCN TTGTAAAATG CAAAANTGTC TAATGAATAT TTNTATNTGT 240  
 NCCATTTTGT ATAANTN 257

## (2) INFORMATION FOR SEQ ID NO: 6526:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 297
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07696

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6526:

```
GATCCTATTT AACATGACAA GTAAAATGCT TGCCATAGGA TATTTATATC TAGAACTTTG 60
ACAGACATAC CTAATCATTG TCACTCAGGC ATCCTGCATA TCATTCATTT ATTCATTTGC 120
CTATCATTTG TTGANCATTT AAAATGTCCT AGATACTTAG NATATGANTG TTGAATGTCA 180
CAAAACTGAA TGTCACTC CCTCCCCTTT AGANATTTNC AGCATGGGAT GCGAGCTAAT 240
GATATGTAAA TAANTACATA TTTNTAANTA ACACAACCNN AAAANAANAN AAACNAN 297
```

## (2) INFORMATION FOR SEQ ID NO: 6527:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 137
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07697

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6527:

```
GATCGTGGCC AACGTGGACC TGCCTACGNA GGGTGGGCTC TGACCCAAGT GGGGCCTCCT 60
TGTCCAGGTC TCACTGCTTT NCACCGTGGT CAGNGGGACT NTCAGCTGAG CTTNAGCTCC 120
CATGGAGCCA GCAGGNN 137
```

## (2) INFORMATION FOR SEQ ID NO: 6528:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 293
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07698

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6528:

```
GATCAGCCTG AGAAGCCACT CAACTTGGCT CACATCGTGC CTCCCAGACC TGTAACCAGC 60
ATGAACGACA CCCNTGTTCT CCCACTCTGT TCCCTCCTCA GGAAGTCCTT TTATTACCAG 120
GAGCTCGGAC GGTGCTTTTG GTGGNTGCGT CTAGATGGAT AACATGACTT CTTCTACCCT 180
AAAATATTCC TATAATACTT TNAGCTGTTT TGGTTCCTCC AGGGTGNATG GTACCNATTA 240
ACCCAAAATA CTGNTTATNT ACCNTTNTT ACNATNTANN AGTCANTTTT GGN 293
```

## (2) INFORMATION FOR SEQ ID NO: 6529:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 345
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single

- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
- (B) CLONE: HUMGS07699
- (ix) FEATURE:
- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6529:

```
GATCCACGGG GCCAGGCCAC CCTGCGGGAG CGCCACACGC ATCCACTTCG GATTCAGTGG 60
GTGAAGACAG AACGCTNAGA GTCTGCAGGC GGCTCCTGTG CTTTAAATTT CTGGCTCTTC 120
GGATGTCTTC TAGACATTTA CTATCACTGC ACCTGAAGAA AAAATCACTT TTACCTTCCT 180
AATTTAAAAA GACAAAACAG AAATGTACGT TCCTTCGCTA GCTTTAGTCT TTCTGTCCC 240
ATTTTNATAA ANTCTGAGGC ATTGATAATG NTCNNATCTA AAATTTGTAC AGTGTGATTT 300
CNNTNNTAAG NGTTAAANCT TTTANTAAAA GGGGCANGAN NTNAN 345
```

(2) INFORMATION FOR SEQ ID NO: 6530:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 266
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07700

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6530:

```
GATCCAGAAA ATAGGTACGG TTTTAAAATA TTTNATATAG AAAAGCTACA AAGTAAATTG 60
AGCAATGCTT TTAAAGTTAT CTTTGTTTTA TAGACTTTTT TGTTGTATGT ATTACAGTCT 120
TTATAATCTT ATTTAATGNA TATNTGTACT TTCAAGTACT GATGGAGATA GNCTCAAAAC 180
AGTTATTTTN TTACAATTAA TCTACAANGG GCATTANTAT TGTNGNCTTT TAAAACATCT 240
GCTGGNTATC TNATNTGCAA TTCNTN 266
```

(2) INFORMATION FOR SEQ ID NO: 6531:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 43
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07701

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6531:

```
GATCCACAC ACTAAATATA TGGTTGTTTT GCCACCTTTT AAA
```

43

(2) INFORMATION FOR SEQ ID NO: 6532:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 285
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07702

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6532:

GATCTGTTTT TCACCACTTC ACTGAAAGAC ACCATTTATC TACCCAAGGG CAGAAAGTAG 60  
 AACTTACTAT TCATTAAATG TTTGACACAA TTGGAATTGT CTTTAATTTT TGTCAGAATG 120  
 CTATTGAAAA TGTGAATTGC ATGACTTGTA GCATATTCTT TTCTGCAAAA TAGCCATATT 180  
 ANCATGCTTA TGACAATGAC TGTGCTACTG TCTNTGGAAA ANTGTTTGTC TCAGTTGGNA 240  
 ATNCTAANNG NTTACCTGC GGANNAAACG CCCCNNNCCN CCCAN 285

## (2) INFORMATION FOR SEQ ID NO: 6533:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 43
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07703

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6533:

GATCCTCTTG TGTATATGCA AATAAACCTA TTATTCATT AAA 43

## (2) INFORMATION FOR SEQ ID NO: 6534:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 194
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07704

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6534:

GATCAAGACA CCTTTTATTA ATAAAGAAGN GACACAGGTG TAGATATGTA TATACAAAAA 60  
 GATGTACGGT CTGGCCAAAC CACCTTCCCA GCCTTTATGC AAAAAAAGGG GAGANTCAAA 120  
 GCTTTCATTT CAGAAGTGTT GCGTGGANAA GTATCTGTAA TTAAAGTTTC GANGTAATTT 180  
 AACCTATTTT TAAA 194

## (2) INFORMATION FOR SEQ ID NO: 6535:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 45
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07705

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6535:

GATCAAGCCC TGCTTAAAGT TAAATAAAAT AGAATGNATG ATAAA 45

## (2) INFORMATION FOR SEQ ID NO: 6536:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 38
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07708  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6536:  
 GATCTTCTGG ATGACCTGAA ATNAGAACTA ATTGGAAA 38

(2) INFORMATION FOR SEQ ID NO: 6537:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 52  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07709  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6537:  
 GATCGCCCAA CTGCACTCCA GCCTGGNAGC AAGACTCTGT CTCGAAAAGA AA 52

(2) INFORMATION FOR SEQ ID NO: 6538:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 55  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07710  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6538:  
 GATCAGNACC ACTGCACTCC AGCCTGGGCA ATCANAGTAC GACTCCTGGC TCAAA 55

(2) INFORMATION FOR SEQ ID NO: 6539:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 252  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07711  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6539:  
 GATCAGTCTG AAGTCGATTA CTAACAGCTG AAGCTGATAA AACCATTAAA GTATACAGAG 60  
 AGGATGACAC AGCCACAGAA GAACTCATC CAGTCAGCTG GAAACCAGAA ATTATCAAGA 120  
 GAAAGAGATT TTAATGAATG TGGAATTTTT TCTCTCTCTT TTTTTTCTT TTTAATTAAA 180  
 AAAAAAAGG CTTGGGGTTC ATGGGGTTTT CCNGTCATTT NGTGCNCTGG CTGGGATTTT 240  
 AAGGGGGAAT TN 252

(2) INFORMATION FOR SEQ ID NO: 6540:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 48  
 (B) TYPE: nucleic acid



(C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07712  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6540:  
 GATCGAGNCA CTACACTCCA GNCCGCCGAA GCAAGACTCT GTCTCAAA 48

(2) INFORMATION FOR SEQ ID NO: 6541:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 235  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07713  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6541:  
 GATCANACAT TTNCTACCTA TGAATNTTGC TGCATACAGA AAGTGCCCTT TCCTCAGGAA 60  
 GTTGCTGTGT NTCATTTCTT TAGATGGNCT CTTATCTAGA ATACATAGCA GCTCTGCAAA 120  
 GAANCAGTTT TTAAAAATGG GAACTTCTAC ATTGAAAAGT CCCCNTTTTT GTGCCAACTA 180  
 TGATTAGTGN GCGGAAGNAN TCTTATTCTA TGGCATATGT ATGGANGGGG GGGGN 235

(2) INFORMATION FOR SEQ ID NO: 6542:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 36  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07714  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6542:  
 GATCCTTTTA AATTTAAAGC AAGTCCTAAA ATGAAA 36

(2) INFORMATION FOR SEQ ID NO: 6543:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 155  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07715  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6543:  
 GATCCAGCGN GCGCAGCAG AGTACCTGCA CAAGGCCGTC TTCAGGGGCC TNCTCACGGA 60  
 GAAGNCGGCG CCCGTNATGA ACGTCATCCA CAGCATCTTC AGCCTCGTGC TCAAGTTCCG 120  
 CAGCCAGCTN ATCTCCCAGG CCTGGGGGCC CCNNN 155

(2) INFORMATION FOR SEQ ID NO: 6544:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 110  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07716  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6544:  
 GATCAAATAT CACTCTCCTA CTTACAGGAC TCAACATACT AGTCACAGCC CCTATAACTC 60  
 CCNCTTACAA TANNTANCCA CAACCAAAT GGGGCTCANT CACCCAACCN 110

(2) INFORMATION FOR SEQ ID NO: 6545:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 192  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07717  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6545:  
 GATCTGGTTG TNTAGAAGCA TGCAGCACCT CCTGCTTCAC TCTCTCTGTC TCTCCTGCTC 60  
 CACCATGGCC AGAAACGTGC CTGCTTCCCC TTCGCCTTCT GCCGTGATTG TAAGTTTCTT 120  
 GAGGGCTCCC CAGCCATGCT TCCTGTACAG CCTGCAAAAC TGTGAGTCAA TTAAACCTCT 180  
 TTTNTTCATA AA 192

(2) INFORMATION FOR SEQ ID NO: 6546:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 73  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07718  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6546:  
 GATCATACTG GTTTGTTTCT TATTTTGATT GGAGAAAAAT NAAATTGCTG CATTTGCGAG 60  
 TGACCCATTT AAA 73

(2) INFORMATION FOR SEQ ID NO: 6547:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 80  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07719  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6547:

GATCAAATGT GTGGCCTTTG ACTGAAATCA GCCAGCCCAT GGCCCCCAAT AAAGGCAGCT 60  
GCCTACTNCT CCNTCTGAAA 80

(2) INFORMATION FOR SEQ ID NO: 6548:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 115
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07720

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6548:

GATCCANATG CGTGTGGCAG CCNAAGGATT TGTTGTAGGA GCAATGNCTG TTGGTATGGG 60  
CTATTCCATG TATCGGGAAT TCTGGGNAAA ANCTAAGCCT TAGAAGAAGA GATGN 115

(2) INFORMATION FOR SEQ ID NO: 6549:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 98
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07721

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6549:

GATCATAGCA TATCTACTAT TTTATTATTT GATTTTTTAAA ATTTAACATT ATATTATGGG 60  
TAACCTTACA TGTCAATAAA CAATTCCACA TTGTCAAA 98

(2) INFORMATION FOR SEQ ID NO: 6550:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 33
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07722

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6550:

GATCAACTTT GGAATAAAGT GATGCCCTTC AAA 33

(2) INFORMATION FOR SEQ ID NO: 6551:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 42
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07723

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6551:  
GATCCACTGT AATATTTAAT AAAAAATGTT ACTATCTGTA AA 42

(2) INFORMATION FOR SEQ ID NO: 6552:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 24
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07724

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6552:  
GATCAAAATAT CACTCTCCTA CAAA 24

(2) INFORMATION FOR SEQ ID NO: 6553:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 141
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07725

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6553:  
GATCACGACC CTNTCACGTG CACCCANTTA GNGTTGTGAG CCCTTAAAG GACCAGGGAT 60  
TGCTCACTCG GGGAGCTCGG CTCTTGAGAC AGGAATCTTG CCCATTCCCC GAACGAATAA 120  
ACCCCTTCCT TAACTCAGAA A 141

(2) INFORMATION FOR SEQ ID NO: 6554:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 226
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07726

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6554:  
GATCAGGCAG CAGGAGTGAG GGGCACAGTC ACCCCAGGCC TTGCTGAGCC CAGGTCTGGG 60  
TACTGAGTGT CCAGAGCTGC CTCCCCAGGA GGTTAAGGTG GGGGCAAAGG GGAAGCTTCA 120  
AGCACTTTGC CTACTTTTGT TCACTNCCCA GTGCACTGTG ACTCAGGCCT TCCCATCAGG 180  
CCTATTGTGC TACCCAATAA AGCGTGTTTT TTCCAGAAAC AAGAAA 226

(2) INFORMATION FOR SEQ ID NO: 6555:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 46
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07727

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6555:

GATCAGCCTG GCCATGGTNA AACCCCATAT CTAGTAAAAC TACAAA 46

(2) INFORMATION FOR SEQ ID NO: 6556:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 306

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07729

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6556:

GATCCACTAT NAGGGTGGCA TCAGCCTGAA TTGAACATCC TATATCTNAA CATCTGCATA 60

AATTCCAGGT GACCACCAGT GTGCACCACT CACCCATCCC AGTGTATTCA GGCCNNNTGA 120

CCTGACCCAN TTTGGCCCAG AGGACTCTGC TGGTGACCTG AAAAGAGGGA CTACATATTT 180

NAGGATATTG TTGGTCTCAC ATGACTCTTG ATAGAGTTTG CCAGCCTTCA AATCACCAAC 240

TGTGGGAACC AAGNNGGNNN TTATTGCCTT GCTGTGTTCA ATTACANAAA ACGNTGGAAA 300

NGGCTN 306

(2) INFORMATION FOR SEQ ID NO: 6557:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 255

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07731

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6557:

GATCTGAATA CCCCTTCTCT GTAGCTGCTA GTGAGCCTTC CCATTTAGAT TAAAGATTGC 60

TTTATCCAGC AGTCAATTAA CTCTCCAGTT ATCAGTACTC CCACAATTGG CCAGGGCAAC 120

AATAATTGGA GTTCATACTG ATGCCCTGAG GCACTGAAAA AAAAAAAAAAT TCCCAAGGNG 180

CCTTNTGGGN TGNCTAAAGG TTNCATTGTG NTTGGNGGCT TTNGTGTTAG GTGTGCNGTT 240

TANTTTCCTA NTTNN 255

(2) INFORMATION FOR SEQ ID NO: 6558:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 59

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07734

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6558:

GATCACGNCA CTGCACTCTA GCCTGGGCGA CAGAGAGAGA GACTGTCTAA AAAAGGAAA 59

## (2) INFORMATION FOR SEQ ID NO: 6559:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 69
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07735

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6559:

GATCCTNAGG TCTCCTAGCC ATGTGGAGCT GTAAGTCCAA TNAAACTTCT TTTTCTTCCC 60  
AGTCTCAA 69

## (2) INFORMATION FOR SEQ ID NO: 6560:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 53
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07736

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6560:

GATCTGTCAA GTCCAGTAGA GCTTCAAGGT AAAATNAAAA TAACAATGTG AAA 53

## (2) INFORMATION FOR SEQ ID NO: 6561:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 33
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07738

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6561:

GATCCAGAGG CCATGGAAGA GTCTCCAAGG AAA 33

## (2) INFORMATION FOR SEQ ID NO: 6562:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 158
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07739

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6562:

GATCAGCTCA AAAAGNTTGT GCTTAGNGTT TTCATTGCAA ATNATAATTG CTGTAGAGCC 60  
ACACACAAC TTTGAAC TTT TAATTATAAG TGTTATGGCT AAAGTTATTN NCTGAAAATT 120  
TCAGTAAAGT GTGTGAATGT TTCTTTATGT ATTANCNN 158

## (2) INFORMATION FOR SEQ ID NO: 6563:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 121
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07740

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6563:

GATCAGGGTT CTTTTTTTCC CCCATACAAG TATCCAGTCA TTGTAACACT GTTTATTGAA 60  
 AGAATTATCC TTTCTCATT AAATTACCTT GCCAATTAGT AAAAAATCAA TTAACCATAA 120  
 A 121

## (2) INFORMATION FOR SEQ ID NO: 6564:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 87
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07741

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6564:

GATCAGCATA CACAAATNAC AAAAGTCTGA ATTTTTTTTT ATCAAGAGGG ATAAAACACC 60  
 ATGAAAATAA ACTTGAATAA ACTGAAA 87

## (2) INFORMATION FOR SEQ ID NO: 6565:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 54
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07742

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6565:

GATCCNTTTT NCTGTGGCAT TTGGTGCCCT AAAAATTTTG CATTTATCTT GAAA 54

## (2) INFORMATION FOR SEQ ID NO: 6566:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07743

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6566:

GATCATTGGA CAACTGCAAA

20

## (2) INFORMATION FOR SEQ ID NO: 6567:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 143
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07744

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6567:

GATCGACTAT GAGACAGCAA AGGGGCCTAC CTNCTNATGG AGTTAGCCAA GAGCCAGGAC 60  
 AAGAGTCTCA AGATTTATGA CGGTGCCTAC CATGTTCTCC ACAAGNAGCT TCCTGACGTC 120  
 ACCANCTCCG TTTCCNTGA ANN 143

## (2) INFORMATION FOR SEQ ID NO: 6568:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 199
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07745

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6568:

GATCTGCTGC AATGCTCNAA GGCCAAGGAT TCATCTNTCT TNTCACCGTA GGACCTGNCT 60  
 GGCATTGTAT TAGCAAACCTC TTTCACTAGA CATCGTACTA CACGACACGT ACTACGTNGT 120  
 AGCTCACTGC CNCTGATGTC CTATCAATAG GAGCTGTATT TNCCATCATA GGAGGCTTCA 180  
 TTCCTGGTN TCCCCNATN 199

## (2) INFORMATION FOR SEQ ID NO: 6569:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 37
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07746

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6569:

GATCGTTTCC AGGACAATAA AAGTTTCGGA GTTGAAA

37

## (2) INFORMATION FOR SEQ ID NO: 6570:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 57
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07748



- (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6570:  
 GATCAGATGT TTAAATNAT TCCAAATACT TCATTAAAAT AATTATTTTA TTATAAA 57
- (2) INFORMATION FOR SEQ ID NO: 6571:
- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 152  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07749
- (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6571:  
 GATCGAGGAA AGGGGCGGAG AATTTTTTTT TCTTCTTCCC ATTCTTTTAA AAAACCAACA 60  
 CAAGAAAACA CACACACACA CAACCAACGT TTGTTCCCGA GTAGAAACAT AAATAGGGCA 120  
 GAATCGAACA CTCTGTTCTT CTCTCTTCCA AA 152
- (2) INFORMATION FOR SEQ ID NO: 6572:
- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 22  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07750
- (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6572:  
 GATCAGAGCT TGAAAAAACA AA 22
- (2) INFORMATION FOR SEQ ID NO: 6573:
- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 111  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07751
- (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6573:  
 GATCAACCTG TGGCTGTTTT CCCGTCTAGG TTCTCACAGG NATCTCCTGA CAGAGGTACT 60  
 TAACAATGGC TCTNCTGGAA ATTTCTATAA ATAAATGTC CAAATGGAA A 111
- (2) INFORMATION FOR SEQ ID NO: 6574:
- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 44  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07752  
(ix) FEATURE:  
(D) OTHER INFORMATION: "N"=unidentified base  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6574:  
GATCTCATCA CTGCTCCTTA TAATAAACCT AATAAAGCAA GAAA 44
- (2) INFORMATION FOR SEQ ID NO: 6575:  
(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 42  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear  
(vii) IMMEDIATE SOURCE:  
(B) CLONE: HUMGS07753  
(ix) FEATURE:  
(D) OTHER INFORMATION: "N"=unidentified base  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6575:  
GATCCCGCCA CTGCACTCTA GCCTATGTGA CTCTGTCTCA AA 42
- (2) INFORMATION FOR SEQ ID NO: 6576:  
(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 48  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear  
(vii) IMMEDIATE SOURCE:  
(B) CLONE: HUMGS07754  
(ix) FEATURE:  
(D) OTHER INFORMATION: "N"=unidentified base  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6576:  
GATCATTTGT AAGACCAAAA TATAAATAAA AAGTTTCAAA AATCTAAA 48
- (2) INFORMATION FOR SEQ ID NO: 6577:  
(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 46  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear  
(vii) IMMEDIATE SOURCE:  
(B) CLONE: HUMGS07755  
(ix) FEATURE:  
(D) OTHER INFORMATION: "N"=unidentified base  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6577:  
GATCGATTAC AATAAATGTT TTTCTAAAAA GCCATTTTCC CACAAA 46
- (2) INFORMATION FOR SEQ ID NO: 6578:  
(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 125  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear  
(vii) IMMEDIATE SOURCE:  
(B) CLONE: HUMGS07756  
(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6578:

GATCAAAAGC TTTGCATTGA TAAGTGTCTC ATAATATTTG CTGTGATTGG AGAAAAAATG 60  
TAGTCGTAGC CAATAAATTT TATCAGCTTT TAAGTTTCAG TATTATTAAA CCATTTTCAT 120  
ATAAA 125

(2) INFORMATION FOR SEQ ID NO: 6579:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 36  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07757

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6579:

GATCAATGT GAAATAAATA TGAATGGAGT GGTAAA 36

(2) INFORMATION FOR SEQ ID NO: 6580:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 199  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07758

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6580:

GATCTCTGGC CCTTTGCGTT TCAGTATTTG TCCTTTTNAT GCCTGAATGT TTAACCTGCC 60  
ACATNTTTGT ACTGCAACAT GAATCTTGGA AATTTTAATG TTATGCATTT NAAANGTTT 120  
TGGTTATCTG TAAACTAAAT GTGCCCTTAT TGGCTNGGNG GTCAAGTNAA GATGTTTGTA 180  
TAATGTATTN GTCAGNAAA 199

(2) INFORMATION FOR SEQ ID NO: 6581:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 66  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07759

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6581:

GATCTACTGT GATGTTGTCT TCAAAGGCAG GNGAAAATAA TGTTACAAAT AAAATGTGCT 60  
AACAAA 66

(2) INFORMATION FOR SEQ ID NO: 6582:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 135  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single

(D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07760  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6582:  
 GATCTGTAAA GAATGACTTT CAAGGATAGT TCTTAGGGGA CTGTGAAAGT GTTGGGTCTT 60  
 ACTCNAGGAT GCCTGCATGG GACCCNACCC GGAGCTGGTG TGGCCATTCC CCAAGTGCCA 120  
 CTGGNCCATG GNNNN 135

(2) INFORMATION FOR SEQ ID NO: 6583:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 130  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07761  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6583:  
 GATCAGCCTG GCCAACATGA TGAGACCCCA TTTGTACTGG AAATGCAAAA ATTGGCCAGG 60  
 CATGGTCGCG GGTGNCTGTG GTCCCAGCTG CTCGGGACGC TGAGGCAGGN NNNATCGTTT 120  
 GAACCTNGGN 130

(2) INFORMATION FOR SEQ ID NO: 6584:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 80  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07762  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6584:  
 GATCAAATGA AAGGCCTATA ACTAAAATCA GCCAGCCCAT GGCCCNCACT AAAGGAACCT 60  
 NCCTCTGCTC CCTNTGCAAA 80

(2) INFORMATION FOR SEQ ID NO: 6585:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 48  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07763  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6585:  
 GATCAACAAT TTTTGTTTTG ATTAAAATNA GTTTTTTGAA AGTTGAAA 48

(2) INFORMATION FOR SEQ ID NO: 6586:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 178  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07764

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6586:  
 GATCCCCTGC TGGCTGGGGG CAGCTCCAG GATATACTGC CTTACAACTG TTTCTAAAGC 60  
 CCATCCTNCT AACATGGCGA TTCCGGAGGT CAAGGCCTTG GGCTCTNCCC AGGGTCTAAC 120  
 GGNTAAGGGG GCCACATACC NGTTCCAAGG GGNNTGTCAA GTNGTGAAGT CGTTNTGN 178

(2) INFORMATION FOR SEQ ID NO: 6587:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 99  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07765

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6587:  
 GATCAGATGG TTTATAAAAG TAATAACCAT AAAGCAAAAA ATAATTGAA AGCCCGTCTA 60  
 TTCCTATGCT CANTAAAGTT AAGGTTTTTC TTCATTAA 99

(2) INFORMATION FOR SEQ ID NO: 6588:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 65  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07766

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6588:  
 GATCCTTTGA GCCAGGAGT TTGAGACCAG CTTGGGCAAC ATAGTGAGAC CCTGTCTCTA 60  
 CCAA 65

(2) INFORMATION FOR SEQ ID NO: 6589:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 205  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07768

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6589:  
 GATCACAGGG TCAGGAGTTC AAGACCACCC TGGACAATAT TGTGAATTCC TGCCTCTACT 60  
 AAAAATACAA AAATTAGTCG GGCATGGTGG CGGGTGCCTG TGGTCCCAGC TACTCGGGAG 120

GCTGAGGCCA GAAAATCGGT TGAACCTGGG AGGTGGAAGG TGCACTGAGC CAATATCACA 180  
CCAGTGCACT CCAACCTGGT GACGN 205

(2) INFORMATION FOR SEQ ID NO: 6590:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 57
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07769

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6590:

GATCTCATAC TCAACAGAAG GAGACTCAGA GACTCCAGAA GGCACAGGAG CTGCCCN 57

(2) INFORMATION FOR SEQ ID NO: 6591:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 184
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07770

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6591:

GATCATGTTT ATTTACTGAT AAAACTCAAT ACCTAGAACT GCACCTAGCT CATGATGGTA 60  
CCTAATAAAT ACTTCAATGA AATGATGTGG TGATGCATGC CTATAGTTTT AGCTACTTGG 120  
GAGGGTGGCC TGAGCCCAGG GGTCTAGAC CAGCTTAGGC AACATAGCAA GACCCCATCT 180  
CAAA 184

(2) INFORMATION FOR SEQ ID NO: 6592:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 165
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07771

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6592:

GATCTGAATG GTTTTAATAA GTGCCTGGNA TTTCCCCTAC TGGCTCTCAT NCTNACTCTT 60  
GCCGCCCTGT GAAGAGGTGC CTTCCACCGT GATTGTNAAG TTTCTGAGG CCTTCCAGC 120  
CATGTGGAAC TGTGAGTCGA AAATNAAACC TCTTTTATAA TTAAA 165

(2) INFORMATION FOR SEQ ID NO: 6593:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 134
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07773  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6593:  
 GATCCAAGCT TAATTTTCAA ACAGCTTCCC AAAAAGCTGT ATCCTGAATA TCATAAAGTC 60  
 TATCATATGA TGTGTACTCA GTCATATTCT GTAGACTCAA ATCTTTTATC TGATTATACC 120  
 AGCTTTCCCG NAAA 134

(2) INFORMATION FOR SEQ ID NO: 6594:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 148  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07774  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6594:  
 GATCTGCCCA CGTTGGCCTC CAAAGTGCTA GGATTATAAG TGTGAGCCAC CACACCAGGC 60  
 CCGTTTCATC CCTGNCTCAG CCTGCATGCC AAGCTCCCTN GGTGCCCCGNC CACAGGTGTC 120  
 ACCCTTTNAG GAGAANGTGG CCTGGGGN 148

(2) INFORMATION FOR SEQ ID NO: 6595:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 238  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07775  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6595:  
 GATCGCTTGT AGCTGGGAAC AGTGCTTACT TCAGGGAAAA CTGATTTTGA TAGAACCGAC 60  
 TAGTTGAGTA TTAAACTGTT TTGGAAATAA TTTATATATC TAAGTGCTGA AATATATTTT 120  
 TCTTCTCCCC ACTTATTCAA ATAAAAANGT TTTNATACTA TAAACTTTTC NNNGTTAGCG 180  
 CCACGCAGTC CTTGTCAAGN TTGTNCTGGG GGNCAANAAC TTGATGTATA AAGCATGN 238

(2) INFORMATION FOR SEQ ID NO: 6596:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 102  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07776  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6596:  
 GATCTCTACT ACCANAAGGA AAATAGTTTA GGNGAAACCA GCTTTTANTG TTTTGTAAA 60  
 ATTAGCTTCA CCCTGTNATG TTANCAAGGT ATGTCTTTGC CN 102

(2) INFORMATION FOR SEQ ID NO: 6597:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 65  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07777  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6597:  
 GATCGCGCCA CTGCACTCTA GCCTGGGTGA CCAGCCTGGG TGACAGAGTG AGNCTCCGTC 60  
 TCAAA 65

(2) INFORMATION FOR SEQ ID NO: 6598:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 282  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07778  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6598:  
 GATCTAGAAG AAAGTATTGT ACGTTTGAAT GCAGATTTTN ATCCACAGAT AGTTGTAGTG 60  
 TTTAGACATG ACAGGACCTA TCGTTGAGGT TTCTAAGACT TACTATGGGC TGTAACCTG 120  
 TTTTNNAAAA CTATTTTAGA AACCTGAGAC TTGCCGTCTG GCATTTNAGT TTAATACAAA 180  
 CTAATGATTG CATTTGNAAG NGTNTCTTGA CCTTATTTCT AAACGTCTAG NGCTCTGAAA 240  
 TGTCTTGCTG GNNGGTATTA AACTATTTGC CTGTNGTACA TN 282

(2) INFORMATION FOR SEQ ID NO: 6599:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 173  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07779  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6599:  
 GATCAAATGG CTTAGAGNTA GTCCTGGAAT ATTCATATTC AAAGATTCCT TATTAATGAA 60  
 TGTCTTTAAC TTAAATCTAC CCAATAATTG CAACATGGTT CTTTGTACAT TTTCATTATA 120  
 TGGTGTTAAC AAGCTTCACT GCAAACAAAT AAATTACTTA AGTTATTTGN AAA 173

(2) INFORMATION FOR SEQ ID NO: 6600:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 263  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07780  
 (ix) FEATURE:



(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6600:

```
GATCAGTGTA GCAAATNAGG GATGAAGNGT TCAAACCTTT TGGCCCTTTC TTTCTTTNCT 60
AGGCTTCTCC CTCGCAGGGT GTTCCGTAAG TTCTTCTCGA GCCAATGCAT GTATTATAGC 120
AGCAGGTGTC TTTGTGCTTT CTCATCATAG TAACGTACTA CTTGTAAATA CATTTTNCTA 180
TTTNCATATTT TTTTGTATTT TTTTTTGACA TTTTGTTCCT TTGGTGTGCT GNGNGNNNCC 240
CATGCCCTCA CTCCTTTAAG AAA 263
```

(2) INFORMATION FOR SEQ ID NO: 6601:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 51  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07781

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6601:

```
GATCCAAAT TCTCAACAAA ATATTAGCAA ATTGAACCCA CCAAGGTAA A 51
```

(2) INFORMATION FOR SEQ ID NO: 6602:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 283  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07782

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6602:

```
GATCAAAGGC CTCTNAGGGG TGTCCACCAA AAACCTTCTCC TTCAAAAGAG AAGACTCCGT 60
GCTTCAGGGC TATGACATCA ACAGCCAAGG GGAAGAGTCC ATGGGAAATG CAGAGCCCCT 120
TAGGAAGCCN ATCAAAAACC GGNGCNTANN GTTAANGAAA GTGAAGTCCC AGGAAATACA 180
CATGCTCCCA ATCAAAAAC AACGGCTGGC CACCTTTTTT CCAAGAAAGT AAATAACGGC 240
TTTTTAAANT NNGTATGNTT ATAATATGGG GAAAGGTGCA TTN 283
```

(2) INFORMATION FOR SEQ ID NO: 6603:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 223  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07783

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6603:

```
GATCGTTCAT CCGATTGCNA CGTTCCAAAG TGTCCAGGTT TTTAAGACCT TACAAATGAC 60
TCAGCCCACG TGCCACTCAA TACAAATNTT CTGCTATAGG GTTGGTGGGG CAGAGCTGTC 120
TTCCTTCTGC ATGTCAGCAC AGTCGGGTAT TGCTGCCTCC CGTATCAGTG ACTCATTAGA 180
GTTCAATNNN NATAGATAAT ACAGATATTT TGGTAAATTG AAA 223
```

## (2) INFORMATION FOR SEQ ID NO: 6604:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 100
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07785

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6604:

GATCACCTGA GCCTGAGAGT TCCAGACCAN CCTGGGCAAC ATAGCGAAAC TNCATCTCTT 60  
TAAAAATAAA ATAAAATTAA AATTAATACA AATAATTAAA 100

## (2) INFORMATION FOR SEQ ID NO: 6605:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 69
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07786

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6605:

GATCCCTTCC ACTCAGGATT CTCGCCGCT TTTCTAAGAA AATAATAAAA AAAAAATNCT 60  
TGTTTCAAA 69

## (2) INFORMATION FOR SEQ ID NO: 6606:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 164
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07787

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6606:

GATCTGCCTG CCTCGGCCTC CCAAAGCGCT GGGATTACAG GCGTGAACCA CTGCGCCCAA 60  
CCTTTGGATT ATTTTTTGTA GAGATGGGGC TTCCCTATGT TGGCNAGGCT GGTCTCAAAC 120  
TCCTGGANTC CAGCCTGGGC GGCAGAGCAA AACCTTGTCT CAAA 164

## (2) INFORMATION FOR SEQ ID NO: 6607:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 73
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07788

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6607:

GATCACTCCT CTGCTTCAGC CTGGGCAATT GAGCCAGACT CTGTCTCAA AATAAACAAA 60  
 AAAACTTGAC AAA 73

(2) INFORMATION FOR SEQ ID NO: 6608:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 74
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07789

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6608:

GATCTTTTTA CCTGGATATG TCTGTAAGGC TCCTGAAAGA GACAAATAAA GTCAATATAT 60  
 TTNCACAGTG CAAA 74

(2) INFORMATION FOR SEQ ID NO: 6609:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 58
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07790

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6609:

GATCTTAGGT CAAATAACAG ACTTGAGAAT ACTTTATAAA CTGCCATGAT ACAGCAAA 58

(2) INFORMATION FOR SEQ ID NO: 6610:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 139
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07792

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6610:

GATCGNGNGC GTTTAACGCT GGTGGGCAGC AATAAGGGGC AGATGTGACC AGATGCCTGC 60  
 NTCCCCAGGG TGCCGAGGGC AGCAGGAAAA AGTGGGGACC TCGGTGCATT TGCCCCACCC 120  
 NTCCCCTMNC TGGGCTAAN 139

(2) INFORMATION FOR SEQ ID NO: 6611:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 75
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07793

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6611:

GATCATCGAC ACTTCGAACG CACTTGCGGC CCCGGGTTCC TCCCGGGGCT ACGCCTGTNT 60  
NAGCGTCGCT TGAAA 75

(2) INFORMATION FOR SEQ ID NO: 6612:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 171  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07794

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6612:

GATCTGGGGG AGGAAGTTCA AGGAAGGCAC CACACCAGAA ATNGGACCTA AATTAAGGCT 60  
TAAAGAATGA GCATGGCCAC ACTGTCAGTN AGTGTCTTTT AGGTGGTAGG ACTATGGTTG 120  
ANATTTTCNT TCTTCCTATC TTCCTGCCTT TTTCAGNNNN TNAATATTAA N 171

(2) INFORMATION FOR SEQ ID NO: 6613:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 69  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07795

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6613:

GATCACGATG TAAATAATTA AGCATTTTGG TTGGATTCTT TTTGTAATAA ACTATTTTGT 60  
TACCATAAA 69

(2) INFORMATION FOR SEQ ID NO: 6614:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 271  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07796

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6614:

GATCTAGGAT AGCTAAGTNA CCTACATGGT GACTGTTCCG TCTAATTCAG AAACAGAAGT 60  
ACTAAAAGAA TACTAAAAAG TTTTACCCA TTATCTCTAT CCCTGTTTTN TTTTGTCAAT 120  
TCTCAGCNGN AGGGAGCAAG AAAATACACA GCAGNGGGGG GAATGTTTGT TTGCATCCTG 180  
GCTTTCTCAA CCGCACTTTA CGTCCTTGAA TATNCTAGAT ATTTACTCCT TCAAGAAGTC 240  
AGGAGTATAT CCAGGCCTAC CTATCANCCT N 271

(2) INFORMATION FOR SEQ ID NO: 6615:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 237

(B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07797  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6615:  
 GATCACACCA TGGAGACTTT CTACTAGAGG ACTTGAAAGA GAACTGAGGG GCCACAAAAT 60  
 AAACTTCACC TTCCATTAAG TGTTCAAGCA TGTCTGCAAA TTAGGAGGGN GTTAGAAACA 120  
 GTCTTTTTC TCTTTTGTGA TGAAGACTGA AATTGTGCCG TGTTGCCTTA TATGANTATG 180  
 CAGTATGGGA CTTTGAAATA ATGATTCATA ATAAATACT AAACGTGTGT CTTCAA 237

(2) INFORMATION FOR SEQ ID NO: 6616:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 196  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07798  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6616:  
 GATCTNAAAT AAAATTCAAA CTCTACTTCT GTTGTCTAGT ATGTAATTGA GCTAATGATT 60  
 CATTGGGAAT ATACCTTTTT ATACTCCTTT ATCATGGTAC TGTAAGTGTA TCCATATTAT 120  
 AAATATAATT ATCTNAAGGN TTTTNAATTT TTNTTNATGT CCAAGNGCCC ACGTGAATTT 180  
 NCTGGTGAAA GTNAGN 196

(2) INFORMATION FOR SEQ ID NO: 6617:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 75  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07800  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6617:  
 GATCATCGAC ACTTAGAACG TACTCCNGNC CCCGTGCTCC TCCAGAACCT ACGNCTGCAC 60  
 TAAGCGTCGA TTAAA 75

(2) INFORMATION FOR SEQ ID NO: 6618:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 50  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07801  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6618:

GATCACGCCA CTGTACTCCT GGGCAACAAA GCGAGACTCC CTGTCTCAAA

50

(2) INFORMATION FOR SEQ ID NO: 6619:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 208
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07802

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6619:

GATCGAGGCT TGTNATGCCT TGTGAGAAAT AAGGGCCTTA ATTTGTACTG TCTGCGGCAT 60  
 TTTTNATAAT ATTGTATATA GTGACTGACA AATATTGTAT TACTGTACAT AGAGAGACAG 120  
 GTGGGCATTT TTGGGCTACC TGGTTCGTTT TTATAAGATT TTGCTGGGTT GGTTTTTTTT 180  
 TTAATTAAAA AGTTTTCAT CTTTTAAA 208

(2) INFORMATION FOR SEQ ID NO: 6620:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 151
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07804

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6620:

GATCAGGAAG CCAAACCTTAA GAAAGAGCTT GAAAATACTG CTCTAGAGCT TAGTCAGAAA 60  
 GAAAAACAGT TTAATGCCAA AATGCTGGAA ATGGCACAGG CTAAGTCAGC TGGAATCAGT 120  
 GATGCAGTGT CAAGACTGGA AACAAACCAA A 151

(2) INFORMATION FOR SEQ ID NO: 6621:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 33
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07805

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6621:

GATCTNGGCA ACACAGTCAG ACTCCGTCTG AAA

33

(2) INFORMATION FOR SEQ ID NO: 6622:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 321
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07807

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6622:

GATCCGGACG ACGTAATCAC TGACATTNAG ATGGTGGACG AGGGCTGGTG GCGGGGACGT 60  
 TGCCATGGCC ACTTTGGACT CTTCCCTGCA AATAATGTCA AGCTTCTGGA GTNACTAGAG 120  
 CTCACGTGCT ACTGCAACTN TAATTTCCCA TGTCCAAAGN GGNTCTGCCT CCACCCCTC 180  
 CCTATTCTG CTGCAAATNT CTAACCAGAT GAGGTTCTGG ACAGACTTCC CTCTCTGCT 240  
 TCATTAAGGG CTTGGGGCAG AGNCAGCATG GGGAAGGAGG TCCCCTTCCC CAAGAGTCCT 300  
 CTTCTATCCC TGGATGAANN N 321

## (2) INFORMATION FOR SEQ ID NO: 6623:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 96  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07808

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6623:

GATCCCAGCA CCCATTCTT AGCTATTTAT CCCTTCTCTG GTTTCGAAA GGCAATTATA 60  
 TCTATTATGT ATAAGTAAAT ATATTATATA TGGAAA 96

## (2) INFORMATION FOR SEQ ID NO: 6624:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 242  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07810

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6624:

GATCTAGGCT TCTNGCCTCA CTCCCATTAG GAATAACACC CAGCAAAATG GAACTATCCA 60  
 AGCACTTCCT ATACATCTGT CTCCCCATTC TCTCTTAAGA AGTTTCTTCA GCTGGTGC GC 120  
 CATCATCATC ACCATGACTG CCCCAGCTC TTGAGGAAAG GNATAATTAC CTCCATGGTG 180  
 TTGCCTCCTA TTTGCCTAAA GCACCAGAAA TAATATTAAA TACACCAGAT TAACTACANA 240  
 AA 242

## (2) INFORMATION FOR SEQ ID NO: 6625:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 97  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07811

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6625:

GATCCCGTCC TTGTCAGAGA AGTGTTCTT GGATGAGCGC CCAGAGGGAG GAGCCCATGG 60  
 CCCTTTCTTC TGTNACTGAT TAAAAATCTC GATGAAA 97

- (2) INFORMATION FOR SEQ ID NO: 6626:
- (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 98
    - (B) TYPE: nucleic acid
    - (C) STRANDNESS: single
    - (D) TOPOLOGY: linear
  - (vii) IMMEDIATE SOURCE:
    - (B) CLONE: HUMGS07812
  - (ix) FEATURE:
    - (D) OTHER INFORMATION: "N"=unidentified base
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6626:  
 GATCCCTTCA AGACTTTGTC ACAGCCTCTA TCACACATCT GTTTTCTCG AAGNAAAAAA 60  
 TATAATTAAT AAAAATGTTT TACTCTTTTA CACTGAAA 98
- (2) INFORMATION FOR SEQ ID NO: 6627:
- (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 36
    - (B) TYPE: nucleic acid
    - (C) STRANDNESS: single
    - (D) TOPOLOGY: linear
  - (vii) IMMEDIATE SOURCE:
    - (B) CLONE: HUMGS07813
  - (ix) FEATURE:
    - (D) OTHER INFORMATION: "N"=unidentified base
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6627:  
 GATCCCGNTG TTCTTAATAA ATCCTGACTT CCAAAA 36
- (2) INFORMATION FOR SEQ ID NO: 6628:
- (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 35
    - (B) TYPE: nucleic acid
    - (C) STRANDNESS: single
    - (D) TOPOLOGY: linear
  - (vii) IMMEDIATE SOURCE:
    - (B) CLONE: HUMGS07814
  - (ix) FEATURE:
    - (D) OTHER INFORMATION: "N"=unidentified base
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6628:  
 GATCAAAAAT AAATACTGCA CATAAANAA AAAAN 35
- (2) INFORMATION FOR SEQ ID NO: 6629:
- (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 77
    - (B) TYPE: nucleic acid
    - (C) STRANDNESS: single
    - (D) TOPOLOGY: linear
  - (vii) IMMEDIATE SOURCE:
    - (B) CLONE: HUMGS07815
  - (ix) FEATURE:
    - (D) OTHER INFORMATION: "N"=unidentified base
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6629:  
 GATCTTGTTT TTATTGTTAT TGCTTTTATT ATNATTGCTT TTATTATCAT TAAAACTCTA 60  
 GTTCTTGTTT TGTCAAA 77



## (2) INFORMATION FOR SEQ ID NO: 6630:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 98
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07816

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6630:

GATCCAGTAC AGAAAGGAAA GGNTATTTAT TGATTAACAG AAGTTGTCTT TTAAAAAGTG 60  
 TTTATTTTGT GCAATAAAGA GCACAACATA ATCTCAAA 98

## (2) INFORMATION FOR SEQ ID NO: 6631:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 132
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07817

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6631:

GATCAGGGAA CAAAATCCTC TCCTTGTTGA AATATCCCAT GCAGTTTGTT GATACAACTT 60  
 AGTATCTTAT TGCCTAAAAA AAAATTNNCT TATCNTTGTT TCAAAAAAGC AANNTCATGG 120  
 ANAATTTTGT TN 132

## (2) INFORMATION FOR SEQ ID NO: 6632:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 304
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07818

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6632:

GATCAACGGC TGACCTTCTG GCGTCTGGGG CATGGTGAAC CCACCTNCAT GAATAGCACT 60  
 GTGTTCCATG TGCCTGANGT GGCTGACATG GACTGCTGGC CTGTAAGCCC TGAGTTTGGC 120  
 CACCGTTGTG CCCTTGGGGG TCAGGGGNTT NAGGTTTACA ACTGGTATGA CTGAGGTATC 180  
 CTGCGGTGGC TGGCGTGCTG GGCATGGGGC NTGCTCACAG ACAGNATGGA GCAGGGAAGG 240  
 GCTGTCCTGT GCCCATGCTC AGCTTGNCCT TNNNGNNGAN GGAGGTNGTG GCCGTGGGTN 300  
 CCTN 304

## (2) INFORMATION FOR SEQ ID NO: 6633:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 35
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07819  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6633:  
 GATCTCAAAT AAAATTNCTG TAAAGAATTT CCAAA

35

(2) INFORMATION FOR SEQ ID NO: 6634:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 185  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07820  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6634:  
 GATCCAAATC GGGCCATCTT CATTGCCATG AGTGTTCCGA CAGGCTCTGC GTGCCAGGCA 60  
 ACAGTGGGCA GACAAAGGGC TCCCTGGCTA CTGGGAAGAT ACAGAACCAT CCTGTGAAAA 120  
 TCATTTGAGC ACTGGAGACC TTCTTTGCTA TTAATTCTTT CATTACAAT GACCTCTAAT 180  
 TTAAT 185

(2) INFORMATION FOR SEQ ID NO: 6635:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 151  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07821  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6635:  
 GATCCGTGGC CTGAAGGTTT CTAGAGNCGT CAAGAAATNA ATATCTTACA CTGTGATTCT 60  
 GTGAGGAAAG ACTGGTAACC CAAACTCTC TTCTCTAATG TATTTTNNAA CGNAAATGAC 120  
 AATATTTCTT TAATAAAGTA TTTATACCA A 151

(2) INFORMATION FOR SEQ ID NO: 6636:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 165  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07822  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6636:  
 GATCCAGGTC TAGGCCCTTN ATCTGCTGCT CTGTGGCCCA GGGCAGGTTT GCTTGACCTC 60  
 TGCCTCAGTT CTCGACTCTA AAGGACATAC TGACCTACCT CACAGGGGTG TTGTNAGGAT 120  
 TAATAAATNT TGGTACTCTG CTTTGGAAT NTGAAAAAAA AGAAA 165

(2) INFORMATION FOR SEQ ID NO: 6637:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 71  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07823  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6637:  
 GATCAAATTC AGTGTGTAT GTATGTTTAT GGCAACATTT TGAAAATAAA AATTAAATGT 60  
 TTTNCTTCAA A 71

(2) INFORMATION FOR SEQ ID NO: 6638:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 348  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07824  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6638:  
 GATCTCAATA CTTCCCTGAC ATCCCTTAAG ACTCAAGTCT TGATACTTTG TCTGCTCTCT 60  
 GGCTCTTTCT TTGTCATTAC TATNATNNNA ATCTTCTTGA TGTTGACTCT TGCTAAAATT 120  
 TTTNGTCTTC CTTATTGTTA ATGCTTATAG AAAATGATTC CTTGTTATCT TTNAGCCCAT 180  
 GTCATCCGAA TCATTGCTG TTTCTAGCCT AGGTGCTTTG ACTATGCCAG CTTGTATTTC 240  
 TNCAGAATTT NCATTANCTA TATGTGTGGT ATTGTAGGCA TTACCATATT TNAAAATAAA 300  
 NTTTAGGCCA TTGCTTCAAA TCACAACAAA NNACAACNCA ACNNACNN 348

(2) INFORMATION FOR SEQ ID NO: 6639:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 53  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07826  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6639:  
 GATCTGAAGA GTGAAAATAA TGCTTTAAAT NAAAAATTGA AATCAGAAGG AAA 53

(2) INFORMATION FOR SEQ ID NO: 6640:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 127  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07827  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6640:  
 GATCTTTTTN AATTCAGTAC AACCCATAAT CATGTAAATN CTCATTTNCT TTAGGNCATA 60  
 AAGAGAGCCC TAGGGTGCTC TGAATGTGTA CATGTNCTTG TCATAAAATG CATACTGTTG 120  
 ATACAAA 127

(2) INFORMATION FOR SEQ ID NO: 6641:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 23  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07828

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6641:  
 GATCTGTTGT TACTTAACAG AAA 23

(2) INFORMATION FOR SEQ ID NO: 6642:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 85  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07829

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6642:  
 GATCTTNATG TTAATNTTCA GAGGACTCTA GACAACAACT TAGCAACTGA AGCTTATNAA 60  
 AGAAGAATTA AGCGCCTTGA GCAA 85

(2) INFORMATION FOR SEQ ID NO: 6643:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 113  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07831

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6643:  
 GATCTTTTGT GGATATTTGT CACTTGGTTT CAGAAAGTNC ACAAATGTAG CAACAGCTCA 60  
 CATGACTGAG TAGGTAGAAA ATGTGAAATA AATCTCATAT ATATNGTTTT AAA 113

(2) INFORMATION FOR SEQ ID NO: 6644:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 54  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07834

- (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6644:  
 GATCGTCCCG CTGCACTCCA GCCTGGCCAA CANAGCGAGA CTGTCCCCC CAAA 54
- (2) INFORMATION FOR SEQ ID NO: 6645:
- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 59  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07835
- (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6645:  
 GATCTTGCTC CTCTGTAAGG AACAAGGGTG CCTAATAAAT ACATTNCTCC TTTATTAA 59
- (2) INFORMATION FOR SEQ ID NO: 6646:
- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 184  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07836
- (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6646:  
 GATCCAGGGT CCCCCAGGGT GGGCTCAGCT CCAGGGAGAG GCCACCCACG TGGCAGCCCC 60  
 ACCTCTTGAG AGCCCCAGT GCCGGAGCAG AAAGGACCCT GGACCCNGAG GCAGNNACTG 120  
 CGGGGTGGTA GAAAAGGTAG AGTAGGCTGT GGCAATGGAA TAAANACGA TTAAAAACGT 180  
 TAAA 184
- (2) INFORMATION FOR SEQ ID NO: 6647:
- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 166  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07837
- (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6647:  
 GATCCTTCCC CTGCAACCAG ACAGTCTACA ACTGCCCCCT CCAGCCCATT TNCTGCCGTG 60  
 AAACCCAGC CAGCCANACC AGGCTCTGGA ACCCTTTTTC GACTAGGNCA ACTCTTGNC 120  
 ACCAGNGGG GTAGAACACC NAACACCAA CTGTACAGAN TNTCCN 166
- (2) INFORMATION FOR SEQ ID NO: 6648:
- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 227  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single

- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS07838
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6648:

```
GATCTNTNAT GGTGAGCACC ACCCGCNTAC CCAGTTCCTC CAGTGGAGAC CAGTTGGGTA 60
GTGGTGACTG GGTACGCTAC AAGCTCTGCA TTGTNTGCTG ATGGGACGCT CTTCAAGGTG 120
CAAGTAACCA GCCAGAACAT GGGCTGCCAA ATCTNAGNCA ACCCCGGTGG AAACACTNAT 180
TAAAAGAACC CCAGAGGACA CCAACAGGTG TNTATCTGGN CNTGNCN 227
```

(2) INFORMATION FOR SEQ ID NO: 6649:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 314
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS07839
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6649:

```
GATCTTTGGG GTTGGAGTGA AGGTCTTATC TGCATTAATT TTGTTAATGC ACATTGTAGA 60
TGTGGAGAAC ATCTTGACCT GCATAAGGAT TGCCTCTCAT TTTATTGTGT AGTGCTTTTT 120
CGAAATATTT ACATTTCTTT GGTTCCTATG TTCATGTATT CTGGAGAAGT AAAATTTCTT 180
GATTACTGGG CAGACCCTAA AACTACTAAG AGAAACATAA CATGTAGTTA GCTGTCTGCT 240
CATGGTTTGT TCAAATCTAA GCTAACCTTA ATGGTGCTGT GTCCGCTGTN CACAGAAAAC 300
GGCCTTAAAG TAGN 314
```

(2) INFORMATION FOR SEQ ID NO: 6650:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 104
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS07840
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6650:

```
GATCCCCTCC CCTGCCCCTG GGTTCCCTGCC TTCCNTCCTC AAGCAGGCAC NNAGGCTTTA 60
GAGAAGTATA GGGGGCTTCT CCCCTGCNGG GCTTACCACA NTTN 104
```

(2) INFORMATION FOR SEQ ID NO: 6651:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 358
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS07841
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6651:

GATCAAGATG CCGAACCCTG TGTTTCAGAAC CTCCAAATAC TGCCATGAGA AACTAGAGGG 60  
 CAGGTCTTCA TAAAAGCCCT TTGAACCCCC TTCCTGCCCT GTGTAGGAG ATAGGGATAT 120  
 TGGCCCCTCA CTGCAGCTGC CAGCACTTGG TCAGTCACTC TCAGCCATAG CACTTTGTTC 180  
 ACTGTCCTGT GTCAGAGCAC TGAGCTCCAC CCTTTTCTGA GAGTTATTAC AGCCAGAAAG 240  
 TGTGGGCTGA AGATGGTTGG TTTTCATGTTT TTGTATTATG TATCTTTTGT TATGGTAAAG 300  
 ACTATATTTT GACTTAACC AGATATATTT TTACCCCAAG TGGGGATATT CTTTGTAN 358

## (2) INFORMATION FOR SEQ ID NO: 6652:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 46
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07844

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6652:

GATCCAGTTT GGGATTATGA AATAAACCAC AAATNAAAAT TTAA 46

## (2) INFORMATION FOR SEQ ID NO: 6653:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 63
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07845

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6653:

GATCTGGGGG GATGGAAAGC AAAATAAAGG AGGTGCCTGG NTGCATTATT TGCAGTGGGC 60  
 AAA 63

## (2) INFORMATION FOR SEQ ID NO: 6654:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 290
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07848

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6654:

GATCCACCCA CCTCGGTCTC CCAAAGTGCT GGGATTACAG TCTTGAGCCA CCGGGTGACC 60  
 GTCTTACAGG GATATTTTNA ATCCCGTNAT GGACTCTGTC TCCAGGAGAG GGGTCTATCC 120  
 ACCCCTGCTC ATTGGTGGAT GTNAAACCAA TATNCCTTTC AACNGGTGNC TGNTAGGGAA 180  
 AANCTACTCC TCATTATCAT CATTATTATT GCTCTCCACT GTATCCCCTC TACCTGGCAT 240  
 GTGCTTGTTA AGTNCTAGTT GTTCAATAAA TTTGTNAATA ATGCTGTAAA 290

## (2) INFORMATION FOR SEQ ID NO: 6655:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 145

- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS07849
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6655:

```
GATCTTCCTG GAAATNAGCA GTGACTAACG CTCACATAAC TGGTTTTTTT TTTNAACTGG 60
GCTGATGAAT ACATTTACCT ANGAACTCA TTTCGTTTTA CTTAAGAGGG GANGTGCACT 120
TTTNTTTTGG NAGTTCAGAN TCCAN 145
```

(2) INFORMATION FOR SEQ ID NO: 6656:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 351
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07850

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6656:

```
GATCCTCTGG TTTNTTCCAT TGGGGCGGAG TCGGGGGTGG AGGGAGCTGG CCACAACCCA 60
CTGCTCTGAT GGGTGGTTTG TCCAAGNATG CTGAATGTAA TGCCTGGTCA ATGTGGAAGC 120
CCATNAGGTT GCCCAGGGAA GCCTCCAAA GCTGGGATGC TTGAGGGTAT CCAAGTTGAA 180
AAAGACAAA TCTGACCATC AGCCAGTGAC AGTCCTGGCA AATNAAGGTG GGGCGGGGCA 240
GTNAGGGGTG GNGANGGTG AATNNTTCAT TATTCCACCC NGCGGTTTNC TGGGGTGAGG 300
GGGAAGANTC GNTGCTTGCT TTGGGCACTG ANGTTTTTTC TGTNNGGGGA N 351
```

(2) INFORMATION FOR SEQ ID NO: 6657:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 346
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07852

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6657:

```
GATCATGTGA AGAAAACAGT GACCATTGAA AATNACCCTC ATCTGCCACC ACCTCCCATG 60
TGTTCACTTC ACCCATGCAG GCATGCTGAG GTGATGAAGA AAATCATTGA GACTGTTGCA 120
GAAGGAGGGG GAGAACTTGG AGTTCATATG TATCTNCTTA TTTCTTGAA ATTTGTACAA 180
GCTGTCATTC CAACAATAGA ATATGACTAC ACAAGACACT TCACAATGTA ATGAAGNGAG 240
CATAAAANCT ATCCTAATTA TTGGTTCTGA TTTTNAAGA ATTAACCCAT AGATGTGNCC 300
ATTGNCCATA TTCATCANTA TATACAGTTT CTCTANTAGG GGAANN 346
```

(2) INFORMATION FOR SEQ ID NO: 6658:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 345
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear



## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07853

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6658:

GATCCACACG CTGGCCAGG AGTTCGACAT TNACCGCAAG GTGGGCGNAG AGCCTGTNCC 60  
 TGTAACGAGG GATNATTCCA GCAATGGCTT TCCCCGCACT CAGCATGGTT CCCCAGTAAC 120  
 CTCCTGCTGA CCAGCTCCTC GGGGGAGCTG TGGAGGATGG TGCGCATCGG TGGACAGCCC 180  
 CTGGGCTTTA ATGAATGTGG CATCGTGGCA CAGATTGCAG GTCCCCTGGC TGCCGCTGAN 240  
 ATCTCTGCCT ACTACATCAG CACCTTCAAC TTNNGNNNNG GCCTGGTTGC CCGAGGACGG 300  
 TATCGGCAGC GTCATCGNGG GTCCTCCAGN GNGGGNAGG AATGN 345

## (2) INFORMATION FOR SEQ ID NO: 6659:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 47  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07854

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6659:

GATCTTTGTT AAAAAAATAA AAAGTACTAA CATTACAGAC ATGTAAA 47

## (2) INFORMATION FOR SEQ ID NO: 6660:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 35  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07855

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6660:

GATCCTGCCA CTGCAGAGTG AAACCCTGTC TCAA 35

## (2) INFORMATION FOR SEQ ID NO: 6661:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 279  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07856

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6661:

GATCCCCCGG AAGTCTTCAC AGGCACTGCA TCGGGTTGTC TGGCGCCCTT TTCCTCCAGC 60  
 CTAAACTGAC ATCATCCTAT GGACTGAGCC GGCCACTCTC TGGCCGAAGT GGCCGAGTG 120  
 TTGCCCCCGA GCTGCCCCCA CCCNCTCACA GGGTCCCTCA GNTTATAGGT GCCCAGGCTG 180  
 AGGTGAAGNG GCCTGGGGGN CCTGCNTTCC GGGCGCTCCT GGACCNTGGG GCAAACCTGT 240  
 GACNNTTTTN TACTGGANTA GAAATNNGTT TTATNATTN 279

## (2) INFORMATION FOR SEQ ID NO: 6662:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 173
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07857

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6662:

```
GATCATAATA TAATTGGTTA CAAAGTGGAA GTGCCAGCTG GCTTAAGTAC CCAAAGAANA 60
GAATGCAGCA GCCTAACTTA GTGTTACCAT ATGTTACTGA ATTTGAAACT GACCTTTTTT 120
CCCACCCTAC TTCACACACC TAAACTCTT TTTTGTGTCAG ACCAAAGNGC AAA 173
```

## (2) INFORMATION FOR SEQ ID NO: 6663:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 295
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07858

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6663:

```
GATCCAGTTG TCATCCACCA CAGACATCTC ACATCAGATA CAGACAGTTC CAAGATTGAC 60
AACAGAGAAC AACCTGCTGG AAAGACCTGG GCAGAAATGG AGAGCCCTGC GGAACCATG 120
CTACATTTTC ATCTAAAGAG AGAATGCACA TCTGATGAGA CTGAAAGTNC TTTNTTGT 180
TAGATTGTAG AATGGTATTG ANTTGGTCTG TGGAAAATTG CATTGCTTTT ATTTCTTTGT 240
GTAATCAAGT TTAAGTAATA GGGGATATAT AATCNTAAGG CNTTTTAGGG TGGCN 295
```

## (2) INFORMATION FOR SEQ ID NO: 6664:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 285
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07859

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6664:

```
GATCATGGTC AGANTGGAGT ACCTGGGGGC TGTCCATGCC CCCCTTTGGA CCTAATCCTA 60
CCCGTCCCCG CCAGCCCCTC TCCACACNT TNCTCCCCAA GTACCCGCC ACCGTTTCCA 120
TGGTCGAAGG TCAGGGCGAG AAGAACGTGA CCTTCTGGGG GAGACCGCTG CCACGGTGTG 180
AGGAGCTACA AGGGCAGAAG CTGGTGGTGG AGGNGNNACG ACCATNTNTA CACGTGCCTG 240
CTTGCAAAGA CCCTGAGGAA GAGGAACCT AACANTTNTT TCCTN 285
```

## (2) INFORMATION FOR SEQ ID NO: 6665:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 47
- (B) TYPE: nucleic acid

(C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07860  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6665:  
 GATCCTGTTA GTCAGTGTGG TTCATCAAT AAAACTGTTT GTGCAAA 47

(2) INFORMATION FOR SEQ ID NO: 6666:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 75  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07861  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6666:  
 GATCTCTAGA GCTGTCTTGT CGCCGCCAG GATTGACCTG TGTGTAAGTC CCAATAAACT 60  
 CACCTACTCA TCAA 75

(2) INFORMATION FOR SEQ ID NO: 6667:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 286  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07862  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6667:  
 GATCCTGCCT GGNCAACCCT TTCCTGTCCC AGGCCCTACA TTCAGCAGAA ACGCACTTTG 60  
 GACTTTNTCC TTTANATAAA AGAAAGACAT CCCAGGAGAA GGACAAACCA GAGGAGTGAA 120  
 CCAACAAAGA GTACCTAGGA ATGGAAGTTG AGCCCTGGAA TGGGGCTCCA TGGAGAGGTG 180  
 CATAGGACTC GGCAGAAATG GCCTCTCCCC AAAGCCTCTT TTTNAGAGGA GAGGGAAGCC 240  
 TATTTTNTTA ACTGGTTTGG GATAGGGAAT GGGGTTCNCTT TTTNTN 286

(2) INFORMATION FOR SEQ ID NO: 6668:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 95  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07863  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6668:  
 GATCCCCGCC TGGCCAGGNG CAGGCACGGG TGGTCCNGT TCCACCCCAA GAGAACTCGC 60  
 GCTCAGTAAA CGGGAACATG CCCCTGCAG CCAA 95

## (2) INFORMATION FOR SEQ ID NO: 6669:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 213
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07864

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6669:

```
GATCTCCTAA TGATGTATTG TGCCGTGGNA GTACTGTGTG TGAATAGCAG TAGTGGGGGC 60
AAAAGCAATC TTCTCATTTG GAAATGTTGT AAATAATTTT ATTATATAGT GTTTTGGATG 120
TATTTGTTGT AGAAATGGNC CAGTGAATAA AGAGAATCTA AGGNTTTGTA CAATGTGAAA 180
TAACGTGTTA AATAANTGTC ATTGTCATAG AAA 213
```

## (2) INFORMATION FOR SEQ ID NO: 6670:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 137
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07865

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6670:

```
GATCTAAAGA CCCGGGAGCG AGAAGCCAAG GCCAGGTTCT GGGNGNAGGG CCCAGAGAAG 60
CAGAACAGCC CAGAGCCCCA GGTGCCTGGC CTGGGCTAGA CCTCTGGAAT TGAGATTAAA 120
CAATTTGGAG TTGGAAA 137
```

## (2) INFORMATION FOR SEQ ID NO: 6671:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 276
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07866

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6671:

```
GATCCGCTAC AGCAACGTGA AGAAGCTGGA AATAAGCCA AAGTACCCGC ACTGCGAGGA 60
GAAGATGGTT ATCATCACCA CCAAGAGCGT GTCCAGGTAC CGAGGTCAGG AGCACTGCCT 120
GCACCCCAAG CTGCAGAGCA CCAAGCGCTT CATCAAGTGG TACAACGCCT GGAACGAGAA 180
GCGCAGGNTC TACGAAGAAT AGGGTGAAAA ACCTCAGAAG GGAAAACTCC AAACCGATTG 240
GGAGGCNTTG TGCAAAAGGN CTTTTCAGN TTNAAA 276
```

## (2) INFORMATION FOR SEQ ID NO: 6672:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 348
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07868

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6672:

GATCCTGGAC CAGTCAGAAG CCGAGAAAGC TCGCAAGGAA CTTTTGGAGC TGGAGGCTCT 60  
 GAGCATGGCC GTGGAGAGCA CCGGGACTGC CAAGGCGGAG GCCGAGTCCC GTGCGGAGGC 120  
 AGCCCGGATT NAGGGAGAAG GGTCCGTGCT GCAGGCCAAG CTAAAAGCAC AGGCCTTGGC 180  
 CATTGAAACG GAGGCTGAGC TCCAGAGGGT CCAGAAGGTC CGAGAGCTGG AACTGGTCTA 240  
 TGCCCGGGCC CAGCTGGAGC TGGAGGTGAG CAAGGCTCAG CAGCTGGCTG AGGTGGAGGT 300  
 GAAGNAGTTC AAGCAGGTTG CCAGAGGCCA TAGGCCCAGC ACCNTNAN 348

## (2) INFORMATION FOR SEQ ID NO: 6673:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 325  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07869

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6673:

GATCTGAGGC CAGCTCCCGT TCCCTGAGCT GCCTCCTGCT TCTCCCTCAA AGTCTCCTAC 60  
 CCTTCTCTTC CTCTTTNAAG CCCTCTCTTC CTCGCTTTCC TTCCTACCTA GTCCTTGTT 120  
 GGTGAGCTTN TTGTGCCTTA ATNCTGTGAC CCAGGCCCTT ACACCANTTT NCACCTTCCT 180  
 GTNCGGAGNA CAAGNCACT AGCTGCCCCA GGAAGTTGTG TGATTTTAAA TCACTTCTGT 240  
 CTTTGCTGGA AAGTGATTTT GTGCATAAAT AAAAGTCTGN GGATTTGTTA AAAANAAGA 300  
 AAAANACNNA AAAANAACAN TNAAN 325

## (2) INFORMATION FOR SEQ ID NO: 6674:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 348  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07870

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6674:

GATCAATGGA ATAGAATTTT ATTGGAAATG TAAAACACTT TCCCAACAAT GGTCATGACT 60  
 TTCTNCTGTT TTTGAGAAGA GTTTCATATG CTGGACCACA TTTNAGCTTT TATTGTTTTT 120  
 TTTNCCCAT TGTCCAAAAA GTTAAGCAAC AAGTGGCCAC ACTTTTACGT GNCTACAACC 180  
 TGGAGTTCTG CAAAGAAGGT AATATTTNCT TGGNCTTTGC CTAANGTTAT CTCCCCATTC 240  
 TATGGTTACA TTTTATTTTG GCCTATGGGG CCTTCTAATA CGTTTTGGTA AAGAGGCGAG 300  
 TNTAANGNAA TTNCTTGTC AATTTACCT CAAAGGTAAT TTCNTGCN 348

## (2) INFORMATION FOR SEQ ID NO: 6675:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 196  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07871

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6675:

GATCAACTCT CTAATGGTGC TAATGGCAAT CTAGCTAATG TGCAAATTTA GGAAGTCTTC 60  
 AGTACTAAGT ACATAATTTT CAAATAATAT TTTTNAATTG TCTACTTTGG ATGTTAGCTA 120  
 TGTCTTGTGN GTATAGGATT CCAATTTTAA GCACTATTTT GATGCAAAAN AATGCATAAN 180  
 NAATTTANTT TATAAA 196

## (2) INFORMATION FOR SEQ ID NO: 6676:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 214  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07872

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6676:

GATCATAAAA ATGTGCGCCA ACAACGGCAG GCGCCATCTA AAGCAGCTTC TAAACAGAGA 60  
 GAGATGCTCA TNGAAGATGT NGGCAGTGAG GNAGAACAAG AAGAGGAGGA TGAGGCACCA 120  
 TTCCAGGAGA AAGATTCCGG CAGCGATGAA GATTTCTTAA TGGACGATGA TGACGNTNGT 180  
 NACTATGGCA GTTCGAAAAN GAAAAACANA TNNN 214

## (2) INFORMATION FOR SEQ ID NO: 6677:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 138  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07875

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6677:

GATCCCCCAA GCCTGACGNG CCGNTNACCA TCCCCTCTGC CCTGCAGAGN CAGCCGCCAA 60  
 GGNTGACCTC AGCTTCGGAG CCACCTCTGG ATGAACTGCC CCCAGCACCC GCCCCATTAA 120  
 AGACCCGGAA GCCTGAAA 138

## (2) INFORMATION FOR SEQ ID NO: 6678:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 208  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07876

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6678:

GATCCATCGC AGAGTCCTAA AGAAGAACCC ACTGAAAAAN TTGAGANTCA CAAGCTCCGG 60  
 GTGGATAAGG CAGCTGCTGC AGCANGGCAC TACAAGCCAA ATCAGATGAG AAGGCGGCGG 120

TTGCAGGCAA GANGCCTGTG GTAGGTAAGA NAGGAAAGAN GGCTGCTGTT GGTGTTAAGA 180  
 NGCAGAAGAN GCCTCTGGTG GGAAANN 208

(2) INFORMATION FOR SEQ ID NO: 6679:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 188
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07878

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6679:

GATCTCCTGG AGGCTACAGG GAGCAGAGGC GATGCCCCGA GCGGCGAGCG TGTTCCTCAGG 60  
 AGCAGGTGGG CAGGGGCCTT GCAGACTCTT CATTTCTTCC TTCCCTTATC ACCGTTAGCC 120  
 ATTTTATGAT GATAGAGATA CAGAGGAGCT CCCATTACAA AGCGCCATTA AACTGTCATC 180  
 TGTGCAAA 188

(2) INFORMATION FOR SEQ ID NO: 6680:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 35
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07879

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6680:

GATCTTGGTG GTAGTAGCAA ATATTCAAAC GCAA 35

(2) INFORMATION FOR SEQ ID NO: 6681:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 297
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07880

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6681:

GATCTTCCGT GGTGAGAGTG CCACTGCGGG AGCTCTGTAT GGTGAGGATG TAGGGGTAA 60  
 CTTGGTCAGA GCCACTCTAT GAGTTGGACT TCAGTCTTGC CTAGGCGATT TTTTCTACCA 120  
 TTTGTNTTTT GAAAGCCCAA GGTGCTGATG TCAAAGTGTA ACAGATATCA GTGTCTCCCC 180  
 GTGTCCTATC CCTGCCAAGT CTCAGAAGAG GTTGGGCTTC CATGCCTGTA GCTTTCCTGG 240  
 TCCCTCACCC CCATGGCCCC AGGCCACAG CGTGGGAACT CACTTCCCT TGTGNTN 297

(2) INFORMATION FOR SEQ ID NO: 6682:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 22
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single

(D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07881  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6682:  
 GATCCAAGAT ATCACTTAGA AA

22

## (2) INFORMATION FOR SEQ ID NO: 6683:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 292  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07882  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6683:  
 GATCCAGCTG TGGTTCCAGA GCAGTGAGCT GGTGAGCTGG GCAGATGGGG GCCAGCACAG 60  
 CAGNATCCAC CCAGNCTGAG GCTCAAGCTG CCCTTACCAC CCCATCCCCC ACGCAGGACC 120  
 AACTACCTCC GTCAGCAAGA ACCCAAGCCC ACATCCAAAC CTGCNTGTCC CAAACCACTT 180  
 ACTTCCCTGT TCACCTNTGN CCNACCNCAG CCCAGAGGAG TTTGNGCCAC CAACTTCAGT 240  
 GNCTTTTGT ACCCNAAGNN AGCACAAGAT TGGACCAATA NTTTTTGNAG TN 292

## (2) INFORMATION FOR SEQ ID NO: 6684:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 247  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07883  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6684:  
 GATCTGCCTT AGCCTCACTG CTTGCCCTTA AGTGGTGGGA TTGCAGGTGT GAGCCACTGT 60  
 GCTGGCCTCA AATAGTTTTN ATCAAAGCTA CTTCAATTAG TGGTTAGCAA GGCTTAAAGA 120  
 CTAATTCAGT GCTTTATTTT NAACTNGNT CGCAACATGT TGCTTTTTTN CCTGTGTCCT 180  
 ATGGGACCTA GTCATCTGTA TGTNAGATTC ACAGAGGAAT TAAAGAGATA AACATGCATG 240  
 TNCTAAA 247

## (2) INFORMATION FOR SEQ ID NO: 6685:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 37  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07884  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6685:  
 GATCCACAAC TACACACATC ATAACCACAC CATCAA

37



## (2) INFORMATION FOR SEQ ID NO: 6686:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 81
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07885

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6686:

GATCTCTGAG GAGTTCCCTG GGGACAACCTG AGCAGCCTCT GGAGAGGGGC CATTAATAAA 60  
GCTCAACATC ATTGNACNAA A 81

## (2) INFORMATION FOR SEQ ID NO: 6687:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 237
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07886

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6687:

GATCAGCCTT TCCAGGTGCT TTAGTCGTTT GCCTAGACAC GTTCCTGTCG CCTCTGACAG 60  
CTGCAGTTGC TCTGCGCTGC TAGACATGGT GGACATTTNA GCAGCCTGAC CTGTGGGGAG 120  
GGGGTCTCTC CCGAAGAGTT TCTGTTTTTA CTCAAATAAA TGTTATTCTC AGATGCTTGA 180  
TGCACTGTTG GAAATGTGCT CNATTTAATC ATGCAGATAA ACCATTTAAA TGTCAA 237

## (2) INFORMATION FOR SEQ ID NO: 6688:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 93
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07887

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6688:

GATCTCTTGA GCCCAGGAAG CCGAAGCCAC AGTGAGCTGT GATTGCACCA CTGCACTCCA 60  
GTCTGGGTGA CAAGAGTGAG ACCCCATCTC AAA 93

## (2) INFORMATION FOR SEQ ID NO: 6689:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 62
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07889

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6689:

GATCGCAGCA TTGCACTCCA NCCTGGGCAA CAAGAGTGAA ACTCTGNCTC AGAAAAGAGA 60  
AA 62

(2) INFORMATION FOR SEQ ID NO: 6690:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 221  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07890

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6690:

GATCCTCCTG CTTAGCCTC CCAAAGTGCT AGGATTATAG CCACCGCACC TCGTCTTGAA 60  
ATAGCCTTTT AAATGTTTAC CTCAGCTTGC CTCACAGTGG GTCTGTTCTT GGTTCCTCAG 120  
ATGCATAAAG GAAGACATAT CCCTCCCCTG GGNAGCAAGG CTACAATGGG AGGGAGGGAG 180  
AACATGGGAG CATGTGAATA AAATGGCATT AANTACTGAA A 221

(2) INFORMATION FOR SEQ ID NO: 6691:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 210  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07891

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6691:

GATCATCAAG AAAAAAGAAA CTAAATGGA CACTTTTAAT GCTGCAAATN AGCTTGTCGT 60  
GAAGTTACCT GATTGTNTAA TTAGAATGAC TACCACCTCT GTCTGATTCA CCTTCGCTGG 120  
ATTCTAAATG TGGTATATTG CAACTGCAG CTTTCACATT TATGGCATTG GTCTTGTTGA 180  
AACATCGTGG TGCACATTTG TTTAANCAAA 210

(2) INFORMATION FOR SEQ ID NO: 6692:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 169  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07892

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6692:

GATCTGTCAT CTTCATAGCA CAACAAAACG AAATGATGGA AATNCTCTTN AGCTCACAAC 60  
ATTTGTTTTN CTTTTAAAGT AAATGCAAGT ACCAAAGCTC ACTACTGCGG TTTGCCTGTN 120  
CCTGGNCANT GAGGCGGAGC NCTGTTGTTT TGTTGGGGCA CCCCTTNN 169

(2) INFORMATION FOR SEQ ID NO: 6693:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 226  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07893  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6693:  
 GATCTCTGCT TACCGTTCAA GAGGCGTGTG CAGGCCGACA GTCGGTGACC CCATCACTCG 60  
 CAGGACCAAG GGGGCGGGGA CTGCTGGCTC ACGCCCGCT GTGTCCTCCC TCCNTCCCTT 120  
 CCTTGGGCAG AATGAATTCG ATGCGTATTC TGTGGCCGCC ATCTGCGCAG GGTGGTGGTA 180  
 TTCTGTCATT TACACACGTC GTTCTAATTA AAAAGCGCAT TATAAA 226

(2) INFORMATION FOR SEQ ID NO: 6694:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 31  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07894  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6694:  
 GATCTCTTAA ATAAACTTGC TTCTGGTTAA A

31

(2) INFORMATION FOR SEQ ID NO: 6695:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 182  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07895  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6695:  
 GATCTAAATT TGTTTATTTA AGCTGCAAGN AAGTTACATT AATTTGGAAT GTGTCATCAC 60  
 TTGGNCCCAG TATATCAGAT TTTNATTGAG TAAAATGTTA AAAATAATAA GTGTA ACTCA 120  
 GATTCTGGAT GTNCGNGTTT ACAATACATT GCCTGTAATA AAAGCTGATT CTGANGTGCA 180  
 AA 182

(2) INFORMATION FOR SEQ ID NO: 6696:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 203  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07896  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6696:

GATCCCAACC CTGTGTCCTG CCCTGACCCC TGTTCCTCCA CTCGTGGCAC TGTCAGCCCA 60  
 GNCCTCCCTA CCGGCQAGAG TCCAGAGTGG GTACAGGAGC AAGGGGCACT GCTGGGGCCT 120  
 GATGGCTGAA GGAGACGCCG GCATCCTCGG GGGCCTGGGG AAGTTGTGTG TTGTGCAGTC 180  
 AGTAAAATCC TCCCACTGCN AAA 203

## (2) INFORMATION FOR SEQ ID NO: 6697:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 51
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07897

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6697:

GATCAAATGA AATAATGTAA CGTGAGNATA CAGTATAAAT GATAAAGGAA A 51

## (2) INFORMATION FOR SEQ ID NO: 6698:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 65
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07898

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6698:

GATCTCCGGG CAGCCACCAC CTCCTCGGTC TGCCCCNTCA TTAAAAAGTC CTCCTTCCAT 60  
 AGAAA 65

## (2) INFORMATION FOR SEQ ID NO: 6699:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 59
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07900

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6699:

GATCTAGTGC CTAGTGTTGC TTTTCTGATG TAATAAAAGG TGGTCTGGCA GAACCTAAA 59

## (2) INFORMATION FOR SEQ ID NO: 6700:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 129
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07901

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6700:  
GATCCAGAGC CACAGAAAGA AATGTAGGTG TGAAGTATTA GGCTGCTGTC AGGGNGAGGA 60  
TGGCAGATGG AGGCATCAAG CACAAGGAAA ATGCACAACC TATGCCCTNT TATACANNNN 120  
GTTTCATGTN 129

(2) INFORMATION FOR SEQ ID NO: 6701:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 39  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear  
(vii) IMMEDIATE SOURCE:  
(B) CLONE: HUMGS07902  
(ix) FEATURE:  
(D) OTHER INFORMATION: "N"=unidentified base  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6701:  
GATCTTAAGT TTACAATTAA AAACCTCAGTA CTCAATAAA 39

(2) INFORMATION FOR SEQ ID NO: 6702:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 56  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear  
(vii) IMMEDIATE SOURCE:  
(B) CLONE: HUMGS07903  
(ix) FEATURE:  
(D) OTHER INFORMATION: "N"=unidentified base  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6702:  
GATCCCCCG GGCATGGCCT GGGCTGGTTT TGAATGAAAC GACCTGAACT GTCAAA 56

(2) INFORMATION FOR SEQ ID NO: 6703:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 31  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear  
(vii) IMMEDIATE SOURCE:  
(B) CLONE: HUMGS07904  
(ix) FEATURE:  
(D) OTHER INFORMATION: "N"=unidentified base  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6703:  
GATCCTTTTA AAATAAAAAT NTTGATGCAA A 31

(2) INFORMATION FOR SEQ ID NO: 6704:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 108  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear  
(vii) IMMEDIATE SOURCE:  
(B) CLONE: HUMGS07905  
(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6704:

GATCAGGAGC CTTCAATAAA ACAGAAATTT TAGGGAAAAC CACAAAAACC TTCGTAAAGT 60  
GAATTGCATT AAACATCAAT TATAATAAAA TTTCATATTT TGANTAAA 108

(2) INFORMATION FOR SEQ ID NO: 6705:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 29  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07909

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6705:

GATCAAAAGG GACAAGCATC AAGCACAAA 29

(2) INFORMATION FOR SEQ ID NO: 6706:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 152  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07911

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6706:

GATCATGGGC AAAATCTAGC CACAGTCCTG AGAGTCCAGG CTTCTGGGAT GCCCAGCTGG 60  
GTATAAAAGT CCCTACTAAC CCTGNTTCAA ATTCAGAGGT TTCTTTGGTT NAGAATGCCT 120  
CAATGAGATT TTGATACATC CAAGAGCGCA AA 152

(2) INFORMATION FOR SEQ ID NO: 6707:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 129  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07912

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6707:

GATCTAAAAA ATACAAAATG TAGACAATTA CTATTCAGGT GCTTACTTTT AAGCCAATAT 60  
GTAGCAGNGN AAAACTAATT TCTCTGTGGC AGTATTTTAA TTTTGTGNAT GTCCCNNGNN 120  
TTAACTGAN 129

(2) INFORMATION FOR SEQ ID NO: 6708:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 118  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07913  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6708:  
 GATCCGCACT GGGGGTTCTG CAGGGTGGGG NCAACCACAG CCTGTCACAA GCTCACCGTC 60  
 AGCCTCTNTG GNGCCATTCG GCAGCATGAA GTCCCTATCA CCCACATAAT AATGNGNN 118

(2) INFORMATION FOR SEQ ID NO: 6709:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 149  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07915  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6709:  
 GATCTTTCCC AGTATCTNNA GTGGGTGACC ACACTTGTCA GTGGGAGNCT NTGAAACTAC 60  
 CCTATCGNCT CCTTAAGGGC GGGATGAACT GCTTTGTGAC TTGGAAGGT ACGCTGCTGG 120  
 CCAGCATTGG AGANGAAGCT NCTGAGCAN 149

(2) INFORMATION FOR SEQ ID NO: 6710:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 236  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07916  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6710:  
 GATCAGGTGG TCAAGGTGCT GCACGATGCC CAGCAGCAGT GCCGAGACGG CCACCCGGTT 60  
 GTGGTCAACA TCCTCATTGG GAGGACGGAC TTCCGCGATG GCTCCATTGC TGTATAGGGC 120  
 CTTGTGGGTC AGNACGCTTN GCTGCCTTCC TACCCCTGGA CTGTNTCCAA NTGGTTTNG 180  
 AGTCTCATNA TTGCTTACCC CTGNGGCTNA TCCCATGAGG NCCCANTGNA CTTCAN 236

(2) INFORMATION FOR SEQ ID NO: 6711:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 173  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07917  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6711:  
 GATCCGCAAAA GAGGAAGACC GCCTCTTCAT TCTCACGACC NTCACCTATT GATGGGAATN 60  
 TGTGCGGGCT CAGGGTTCCT NNACACACTA GNTGTGGGAA GCCATAGGAG CCTCCAGATG 120  
 GGGGCTGGCC TCTCTTGCCC AGCNAGNGGG CAGGGCCTGT GGGNTGGTGA ATN 173

## (2) INFORMATION FOR SEQ ID NO: 6712:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 48
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07918

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6712:

GATCACGNCA TGGCACTTCA GCCTGAGCGN CAGAATGAGA CTATTAAA

48

## (2) INFORMATION FOR SEQ ID NO: 6713:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 50
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07919

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6713:

GATCGTGTCA CTGAACCTCA GNCTGGGTAA CAGTGCGACT CTGTCTCAAA

50

## (2) INFORMATION FOR SEQ ID NO: 6714:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 156
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07920

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6714:

GATCTTTGTT TAAATGCCAA AATGTACTTA AATGAGTTAC TTAGAATGCC ATAAAATTGC 60  
 AGTTTATGT ATGTATATAA TCATGCTCAT GTATATTTAG TTACGTATAA TGCTTTCTGA 120  
 GTGAGTTTAA CTCTTAAATC ATTTGGTTAA ATCAAA 156

## (2) INFORMATION FOR SEQ ID NO: 6715:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 208
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07921

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6715:

GATCGATACC CCCACCCCTC CACTNGCCAG CCTGGGGGTG CCCTGCCTGC CCTCCTGGTA 60  
 CTGTTGTCTT CCCCTCGGCC CNNTCACATG TGTATTCAGC AGCCCTATGG CCTTGGCTNT 120



GGGCCTGATG NGNAGGGGTA GAGGGAAGNT GAGCATAGCA CATTTTCCTA GAGCGNGAAT 180  
 TGGGGGNAAG CTGTTATTTT NATATTAN 208

(2) INFORMATION FOR SEQ ID NO: 6716:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 57
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07922

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6716:

GATCACGACA CTACACTCCA GCCTGGGGGA CCGGGCAAGA CTCTGTCTGT CTTTAAA 57

(2) INFORMATION FOR SEQ ID NO: 6717:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 333
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07923

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6717:

GATCTTGAAA AAAAAAGCAA AAGCTTAAAT ATTTGATACA AGTTTACTTA GCTACAACAT 60  
 ACTTTACATT GTTGCCTTTA GTTATCTCAC AGGCACTGAC ATTTTATATT TAGAAAATAC 120  
 TTTTAATCTT NCTAATCTTT TTTTGTAAT ATTAGTGTCC ATTCTGTATG ACTCGCTAAC 180  
 CTACTTTGCA AGGCTTTGGG CAACATTTTA GCTCATTAAAC TTCAAGATGA TGTGTCATCT 240  
 GTATAGGTCA AAGAAATGGGN CTTCTGAACT GAGGAATTTT GCTGTTGACA GCCAAAGTNT 300  
 AGTGACAAG GTTTGATGNA ACTNGNTTAT GTN 333

(2) INFORMATION FOR SEQ ID NO: 6718:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 57
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07925

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6718:

GATCTTGAC TTCCAGCCT CCAGAATTGT GAGAAATAAA TTTCTGTTGT TGATAAA 57

(2) INFORMATION FOR SEQ ID NO: 6719:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 63
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07927
- (ix) FEATURE:  
(D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6719:  
GATCTTTGCT TAATAAGANG AAAAAAGAGG CAAGGAGAAA ACGAAGAGAA AGAAATTTTG 60  
AAA 63
- (2) INFORMATION FOR SEQ ID NO: 6720:
- (i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 22  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:  
(B) CLONE: HUMGS07928
- (ix) FEATURE:  
(D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6720:  
GATCCNGTGT TCTTCTGTGA AA 22
- (2) INFORMATION FOR SEQ ID NO: 6721:
- (i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 186  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:  
(B) CLONE: HUMGS07932
- (ix) FEATURE:  
(D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6721:  
GATCCGGCTT GGACAGGCAC CTGAGATGGT GCCAAAGTGC AGCTGACTCT TCCCACGACA 60  
GCCCTGCCCT TCCCATGAGG CAGGCTCTTC AGTGAGTGTT TGAACGTAAT TATGTAGTTT 120  
TCTGTTTAAT TGAAAAAGNG AGCTATGCCT TTTTCTCTT TTGGANGTAA AGCAGCTAAA 180  
ANCAAA 186
- (2) INFORMATION FOR SEQ ID NO: 6722:
- (i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 45  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:  
(B) CLONE: HUMGS07933
- (ix) FEATURE:  
(D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6722:  
GATCCAGGTG TTTGTTTCTA ACTTCTGTAA TACATACAAT GCAAA 45
- (2) INFORMATION FOR SEQ ID NO: 6723:
- (i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 173  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single

(D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07934  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6723:  
 GATCATGGTG ATTTNACTGC TGCTTGTGGN TATCGTGGTT GTTGCACTCT GGCCGACCAA 60  
 CTGATGGCAG TAAAGAGACC ACCAGCAGTG ACACCTGCCA ATNACAGATG CAAGCCCAAC 120  
 ACCCTNTTGG TACGCAAAAC CTNATCTCAA TAAATTCCCC CAAAGCTCTG AAA 173

(2) INFORMATION FOR SEQ ID NO: 6724:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 61  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07935  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6724:  
 GATCCCAAGC CCTGCATTGT AAGCCACAG TAGGCACTCA ATAAATGCTT GTTAAAGGAA 60  
 A 61

(2) INFORMATION FOR SEQ ID NO: 6725:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 269  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07936  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6725:  
 GATCCTGCAG AAGAATAACC TGAATCTGCT CAGAGACCTA AGCTGTGCAC ATTGCCCATTA 60  
 GCCTCAGGAA CAGTCCAGAC TGGGGCGGTG TGGTCATATT ACACAGNNAG GAGGGTGATT 120  
 CAGAGTTCAT GAATATCATT GCCAATNAGA TTGGGTCAGA GGAGACCCTC CTGTTCTTAA 180  
 CTGTGCGCGA TGAGNAAGNT GGTGGNCTNT TTTTACTGGC AGGGCCACNA NCGCTCATGT 240  
 GGAGACCCNG GGGCCCAGGG TGGCTGATN 269

(2) INFORMATION FOR SEQ ID NO: 6726:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 229  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07937  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6726:  
 GATCCCTCAT CCCTGAAATT GAGTTTATGT AGTCATTTTA CTTATTTNAT TCATTAGCTA 60  
 ACTTTGTCTA TGTATATTTN TAGATATTGA TTAGTGTAAT CGATTATAAA GGATATTTAT 120

CAAATCCAGG GATTGCATTT NGAAATTATA ATTATTTCTT TGTCTGAAGT ATTCATTGTA 180  
 AACATACAA AATAAACATA TTTNAANACA TTTGCATTTN ACCACCAA 229

(2) INFORMATION FOR SEQ ID NO: 6727:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 50
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07938

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6727:

GATCCATGAA CTCTGACCCC TCCCCAGTAA AGGCTTCTGT AGAGAGCAAA 50

(2) INFORMATION FOR SEQ ID NO: 6728:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 122
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07939

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6728:

GATCCCCGCA CCAGCCTCTC CTCTCTTTCC CTGCAACCTG TTACCTCACA CAGCTGCTCA 60  
 GGAACAGCAG AAATAGTAAA ACTCTTCCAT ATATGTGGCA CCTCAGCCGC CCCTCCNTTA 120  
 AA 122

(2) INFORMATION FOR SEQ ID NO: 6729:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 213
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07941

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6729:

GATCAGGAAG TTCTTAGATT CTTGGATGAC AGATGCATGT TGATGCCCTA TGGAGATGTC 60  
 CTTNTGTTTT GAGGTCCTG AGGTAGGAAG ACCTGTCTAC TCTTGGTTTC ACCACTAGAA 120  
 CAGTCTTGGG CTGGATGGGT TATAGAGCTG AGCGGCTGTA ATGGTTCTNT TTTTACATTA 180  
 ACAAAAACAA TTA AAAACAC CAAAAACAAC AAA 213

(2) INFORMATION FOR SEQ ID NO: 6730:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 85
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07942

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6730:

GATCCCAGGN ATTCAAGGTT AGAGTGAGCT ATGATTGCAC CACTGTACTC CAGCCTGGGC 60  
 ANCAGAGANN GACCTGTCTC ACAA 85

(2) INFORMATION FOR SEQ ID NO: 6731:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 313  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07944

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6731:

GATCCAGCTG GAATTTGAGG ACACTGGAAC AATGAGGTCA GCTTCCAAAA CAAAACAAAA 60  
 CAAAACCTTTA AACATCTGTG TAAGTACAGG GTGGAATATA ATGAATTCCA GGTACCCATC 120  
 ACTTAGGTTT CACAATTAGC CATGGCCAAT CTTGTGTGAT AGGTATGTCC CTACCTATTT 180  
 CTCCCCTGCC CTNATTGTGA AGTAAATATT TTCCTAAAAG GTCTTTTAA AATTAAGTTA 240  
 TAACCATGCC ATCATTGTAC AAANNTAATG CTATTANNTT CCTTANTNTN ATCAAATNTT 300  
 CNNGNCTNAN NTN 313

(2) INFORMATION FOR SEQ ID NO: 6732:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 73  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07945

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6732:

GATCACTTGA ACCTAAGAGT TTGAGGCTGC GCACTGCACT CTGGCCTGAC AGAGCGAGTC 60  
 ACTGTCTCTT AAA 73

(2) INFORMATION FOR SEQ ID NO: 6733:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 257  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07946

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6733:

GATCTGAATT CTAATGCTGG CTTGTGCCTC TAACTATGTG GTTTGGTCAT TATAGATAAT 60  
 GCCCAGTTTA ANTTTCCCA TCTTTGAAA GGAGATAATA TGTNATCTCT TGGGAGTAGT 120  
 TCTGAATATG AAGTGTGTTG ATACAAGAAG CACTGACAAT GTTCTGTNN NNNAAATTTA 180  
 AAACCTGGCCT GGTTTGCCTT TTTAATCAAG NGNGCTTAAC AGGTTAAAN TTGGAATTAG 240

NCCTAAAAAN AAAAACN

257

## (2) INFORMATION FOR SEQ ID NO: 6734:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 148
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07948

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6734:

```
GATCCTTTAG CCTCCTGGNA GTGCCCCAGT TGTACCCCCT ACACACCCCT CTTGGCATTG 60
AGTGCCAGTC CTCTGCCAGG CTNTGTGTTA CAAGTTGGGG NGGGCGGCAA AGTACCGAAT 120
TAAAGATGTC AGTTCTAAAG GAGGNAAA 148
```

## (2) INFORMATION FOR SEQ ID NO: 6735:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 289
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07949

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6735:

```
GATCATATCC AATTCATATG GAAGTCCCGG GTNTGTCTTC CTTATCATCG GGGTGGCAGC 60
TGGTTCTCAA TGTGCCAGCA GGGCCTCAGT ACCTGAGCCT NAATCAAGCC TTATCCACCA 120
AATACACAGG GAAGGGTGAT GCAGGGAAGG GTGACATCAG GAGTCAGGGC ATGGNNTNGN 180
NAGATGANTA CTTTGCTGGA TGAAGCAGGC TGCAGGGCAT TCCAGCCAAG GGCACAGCAG 240
GGGACAGTGC CGGGAGGTNT NGGGTAAGGG AGGGCAGTNA CNTNAGAAA 289
```

## (2) INFORMATION FOR SEQ ID NO: 6736:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 114
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07951

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6736:

```
GATCAGGCTT TTAAATACTC ATTTACAAGT TTTCTATCCT CCTTCAGTGT TAAAGTAGAA 60
AGTAAAAAGA GTATCTNATA CATGCATGAA ATTAAAGCAT ATACCAAATG CAAA 114
```

## (2) INFORMATION FOR SEQ ID NO: 6737:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 229
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07952

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6737:

GATCACCCAG CATCCTTCCC CACCCAGCT GTGTATTTAT ATAGATGGAA ATATACTTTA 60  
 TATTTTGTAT CATCGTGCCT ATAGCCGCTG CCACCGTGTA TAAATCCTGG TGTATGCTCC 120  
 TTATCCTGGA CATGAATGTA TTGTACACTG ACGCGTNCCC ACTCCTGTAC AGCTGCTTTG 180  
 TTTCTTTGCA ATGCATTGTA TGGCTTTATA AATGATAAAG TTAAAGAAA 229

## (2) INFORMATION FOR SEQ ID NO: 6738:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 295  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07953

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6738:

GATCTCTTGT NCTTTAATTT TAGGGTCTTG TTCCAGGACT CAAATCAGTA ACTTGGTGAT 60  
 TACAAGGTGC TGAATGTGTT GGTAACCATA TCGCAATACA CCTCAAGGAA AAGGTTTCAGA 120  
 TTTTNATTTT TAAAATATTT NCATTTTTTC CTTGAATTIN ATATCCGTTT GTCCACTCGT 180  
 ACATGCCTAG CCTACAGAAG GGGATATATA TNATGANATG GTCATTTTCC TGAAGNGNAT 240  
 ATTTTGCTTG AAATGCAAAG GNCTGAAAGN GNTTTGTAGG TTGTTGGTTT TTTCN 295

## (2) INFORMATION FOR SEQ ID NO: 6739:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 85  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07954

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6739:

GATCATAACA CTACTCCAGT CTGGGTGATG AAGTGAGACC TGTCTACAAA AAAAAGAAGC 60  
 CCAAACATAA CCTAAAGCAA GCAA 85

## (2) INFORMATION FOR SEQ ID NO: 6740:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 145  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07955

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6740:

GATCAGGCTG GTCTCAAACCT CCTCGGTTCA AGCAATTCGC CCACCTTGGC CTCCCAAAGT 60  
 GCTGGGATTA CAGGGGAGCC ACTGCACTGG CCTTCATTGT CTTTTTGCTG CACAACCTAA 120

AAAACCAAGTG ACCCTGTATT GGAAA

145

## (2) INFORMATION FOR SEQ ID NO: 6741:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 81
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07956

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6741:

GATCCTAACA TGTATTGATT GTAAAAGTGA AATATGTAAT AGCCACACTT CACTGTTTTA 60  
 AAATAAAAGT GCAATTTCAA A 81

## (2) INFORMATION FOR SEQ ID NO: 6742:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 50
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07957

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6742:

GATCTTGTCT CCAATTAAAC CGAGGCTTTC ACCGATAAAA AAAAAACAAA 50

## (2) INFORMATION FOR SEQ ID NO: 6743:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 115
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07958

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6743:

GATCTGATGA AGTATATNTT TAATTGCCAT TTTGTCCTTT GATTATATTG GGAAGTTGAC 60  
 TAAACTTGAA AAATGTTTTT AAAACTGTGA ATAAATGGAA GCTACTTTNA CTAAA 115

## (2) INFORMATION FOR SEQ ID NO: 6744:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 175
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07959

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6744:



GATCGGGCTA CTACAAAGTT CTGGGAAAGG GAAAGCTCCC AAAGCAGCCT GTCATCGTGA 60  
 AGGCCAAATT CPTCAGCAGA NGAGCTGNNG AGAGATTAAG AGTGTTGGGG GGGCCTGTGT 120  
 CTTGGTGGGT TTAAGGCNCA TTGGNNGGNA NTTATTNAA TTNTTACTTC TTTTN 175

## (2) INFORMATION FOR SEQ ID NO: 6745:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 61
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07960

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6745:

GATCAAAAGT AACACGTNNA GACTCTGAGC TTAATCCATT AAATGGATTT NAGCATCTAA 60  
 A 61

## (2) INFORMATION FOR SEQ ID NO: 6746:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 118
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07961

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6746:

GATCATNAAC TACTGTTT ATNTGGAAGT CTAGTTCTG GTCCTGCTAC CCCTTTAACT 60  
 TGAGTNATTT ACAAGTCTGT TTAAGTTT CTAGACATAC ACTGGTTTGN TTTTAA 118

## (2) INFORMATION FOR SEQ ID NO: 6747:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 140
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07963

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6747:

GATCGCCCAA CGTTTTTGGN TTATAGAATT ATTATTTCTT GCTTTCTTTC TTTGGGTCTT 60  
 TTGAATTTCT TTGGTTTCGT NTTTAAGAAG TAACCCANCA TTTCTACAA CACTAAATAA 120  
 AATGGTACTT ACCTTTCAA 140

## (2) INFORMATION FOR SEQ ID NO: 6748:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 68
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07964  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6748:  
 GATCCCCGTT CCACCCAAG AGAACTNGCG CTCAGTAAAC GGGAACATGC CCACTGCAGA 60  
 CACGTAAA 68

(2) INFORMATION FOR SEQ ID NO: 6749:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 79  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07965  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6749:  
 GATCCCCCTT GCCTATCAGC TTCTCCTGTG GNGCCTGTTC CTCACTGGAA ATTGGCCTCT 60  
 GTGTGTGTGT GTGTGTGTN 79

(2) INFORMATION FOR SEQ ID NO: 6750:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 28  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07966  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6750:  
 GATCGAAAGG GAGGCAGGTT TGCCTAAA 28

(2) INFORMATION FOR SEQ ID NO: 6751:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 294  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07967  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6751:  
 GATCTCAAGC CAGCCCCNTC CAGCTCATGA CACTGTTTGG CCTTTCTTGG GGAGAAGGCG 60  
 GGGTATTCCC ACTCACCAGC CTGGCTGTG CCATGGGGAA ACCCTGGAGC CATCCCTTNG 120  
 GAGCCAACAA GACCGCCCCA GGGCTATAGC AGTAAGAACT TTAAAGCTCA GGAGGGTGAC 180  
 GNCCAGATNC GNCTGCTGGG AAGAGCTCCC CTNCACAGCT GCAGCTGAAT GCATTAGGGC 240  
 TACCGNAGGN CCCGGACTTA NCAAACTTTG NCNACAANNG TTCCTAGGGN TTTN 294

(2) INFORMATION FOR SEQ ID NO: 6752:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 160

(B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07969  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6752:  
 GATCCCCAAG TGTGAACAGT CTGAAAAGGG CTTTTTGCTT GCTGCAGGGA CCTGAGAATT 60  
 GAGAAACAGC TGTGAACTT TGAACCCTGG CTGGAAGGTC CTGGTATTGA CTGTGGCANG 120  
 AAAACGGGGG AGCTAATCTG TAATCTGCTT AGACGCCAAA 160

(2) INFORMATION FOR SEQ ID NO: 6753:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 98  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07971  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6753:  
 GATCAGATTC ACGGACCCAG AGCTTTTCCA TGTGTTTATA TTGTAAATAT TTTTNATTTT 60  
 ATCAAATTAT TTATTCATTA AAAGAAATTT TTGTGAAA 98

(2) INFORMATION FOR SEQ ID NO: 6754:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 35  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07973  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6754:  
 GATCCTGTCT CTTAGGAAAA AAGAAAACCT CTAAA 35

(2) INFORMATION FOR SEQ ID NO: 6755:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 64  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07974  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6755:  
 GATCAAAGAC CCTGCCTCTA TTTNACCCCG CACTGACTGA ATAAAGCTCC TCTGGCCGTT 60  
 NAAA 64

(2) INFORMATION FOR SEQ ID NO: 6756:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 38  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07975  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6756:  
 GATCATCTGA GCTGAAGAAA TAAAAAACA CACACAAA 38

(2) INFORMATION FOR SEQ ID NO: 6757:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 56  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07976  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6757:  
 GATCATTCAT ACACTATATT TATTTTNC A TTAAANTATT TAAAACCTT TGGAAA 56

(2) INFORMATION FOR SEQ ID NO: 6758:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 105  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07977  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6758:  
 GATCTTTCAT CAAGATTTTA CTGCATTTA TGTCTAAGGG TCCCTGATAA GGCTTGAGGC 60  
 ATGTAACCTA TGTCTAATTA AAAATGATTT GTTGAATGAA NCAAA 105

(2) INFORMATION FOR SEQ ID NO: 6759:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 65  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07981  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6759:  
 GATCTACAGA AGCTTTNATT CTCTTACCTT AACAGTAGTA ATAAAGTTAA CATTNTCACA 60  
 TCAAA 65

(2) INFORMATION FOR SEQ ID NO: 6760:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 106  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07986  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6760:  
 GATCTGTGTG TTGTGGGAAG AGAATTTTCA ATATGTAAC TACGGAGCTGT AGTGCCATTA 60  
 GAAACTGTGA ATTTCCACAT AAATCTGAAC ACTTGTCTTT ATTAAA 106

(2) INFORMATION FOR SEQ ID NO: 6761:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 106  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07987  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6761:  
 GATCTCATGG CTTTGATTGN TTTGGGCTGT TCAAAATGTT TATTTGNAAA ACGTATACAT 60  
 TAATAAACTT AACAAAGCGN TATAAAATAC AGCGNAATCA CCCAAA 106

(2) INFORMATION FOR SEQ ID NO: 6762:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 335  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07988  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6762:  
 GATCGAAAGG GCCACCATGA ACTTGATACG TCCGTGTGTC CCAGATGCTN NCATTAGTCT 60  
 ATATGGTTCT CCAAGAAACT GAATGAATCC ATTGGAGAAG CGGTGGATAA CTAGCCAGAC 120  
 AAAATTGAG ANTACATAAA CAACGCATTG CCACGGAAAC ATACAGAGGN TGCCTTTTCT 180  
 GTGATTGGGT GGGATTTTTT CCTNTTTTAT GTGGGATATA GTAGTTACTT GTGCCAAGAN 240  
 TAATTTTGGC ATNATTTCTN TTANTATCAA CTCTGANGCT AACTTGTACT AATCTGAGAT 300  
 TGTGTNTGNT CCNANTAANC GTGANGTGAA CCTGN 335

(2) INFORMATION FOR SEQ ID NO: 6763:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 169  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07989  
 (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6763:

```
GATCTTGGAG ACAGGCCATC CATCCTGGAG CCTCATGGAA CAGGATGATG GCACTGAGAA 60
AGCCAATGAC CGAATCTCTT TTCTCTGTAA AAATGTAGAC TGAAAAGCCA TGTGTATTTT 120
CCTATGTGCT GTAGCTCTCC TTTGGAAATA AATCACAGGC ATCTGGAAA 169
```

(2) INFORMATION FOR SEQ ID NO: 6764:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 212  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07990

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6764:

```
GATCTGGGCT GCAGGAGCTG GGGCCACCCA CAGCCCCCCT ACCGACCTGG TGTGGAAGGC 60
ACAGAACACC TGGGGCTGCG GGAACAGCCT GCGTACGGCT CTCATCAAAC TCACTGGGGA 120
AGAAGTGGCC ATGCGGAANT GGTGCGCTCA GTGACTTNTG GTTNAGGACG NCGNGGNTTG 180
AGGATTGAGA NTACNTATT CATTNACCAC NN 212
```

(2) INFORMATION FOR SEQ ID NO: 6765:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 141  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07991

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6765:

```
GATCATACCA CTGCACTCCA GCCTGGGCGA CAGAGAACCT CTCTAAAAAA AAAGGAAAAT 60
NAAAAATAAA TGGGGGCGAGA AGCTGAGCCA AGCAGAGGCG GGCAGCTCCT CCTCCAGGGC 120
CCACCTGGCC TGCTGGGGAA A 141
```

(2) INFORMATION FOR SEQ ID NO: 6766:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 360  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS07992

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6766:

```
GATCTGTTAT NAAACGAAAC ACCCCCCGTG TTAATAACTT GGTATGAAAT CTGTTTTTAT 60
GAGCCGGGCC CCCTGTGCCT CTAGTATACT TGTATTGACT CTCATAGTTA CCCTTTTAGT 120
TTTACTGTGT TCTGTGAAAA TTTGTAATTG GTTGNGAATC ACTGTGGGCG TCCATTCTTA 180
TTCAACTAAA TCTCCACAGG TTTTTTGAGC TGGTGTGGAT TAGTTTAACT CTTGTATTCA 240
ACCATTAGTG CTACCACCTT CTCACATTAC AATACANTTN CTGGAAGCAA GTACTGCATT 300
TCCTATGCAA CAAAAAAGG GCAAAANTAC ANANATTGCT AAATGATAAA CAAANACTTN 360
```

## (2) INFORMATION FOR SEQ ID NO: 6767:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 88
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07994

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6767:

GATCAAAAGG GCTATGGGAA GGGCAGACCC CGCCAATGAT TTCTCTTCAC CTGTCTTAAG 60  
 ATTAAATAAA AAAGAGTGTC CTGGCAAA 88

## (2) INFORMATION FOR SEQ ID NO: 6768:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 65
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07995

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6768:

GATCTTGCCA AGAACCATCA CGTGTTAATT TAGTTGCTTA AACAAAAGGT GTTCTGTTTC 60  
 TTAAA 65

## (2) INFORMATION FOR SEQ ID NO: 6769:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 246
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07997

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6769:

GATCAGTGGT GAAATATAGT GATTTTNACC TGTGCTTCCA TTCTGAAGTT CTGGAAAGAA 60  
 GTACTGGATG GACTGAAGTC CAGGACAACG TTCCAAAGAA AGGCAGAGTC CAGGTAGGCT 120  
 TGGAGGACCA AGCCCTGGAT GAGCACTGGA GGGCAGAGGC CTCAGTGTCC AGCACTGTGC 180  
 CCTGCACATG GAAAGCCCCT ACGTTTGTGG AATNAATGAN TANTAAAAAT ATTTTNATNA 240  
 GTGAAA 246

## (2) INFORMATION FOR SEQ ID NO: 6770:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 23
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS07998

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6770:  
 GATCCTGTCC CTGCCCTGCC AAA 23

(2) INFORMATION FOR SEQ ID NO: 6771:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 46  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS07999  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6771:  
 GATCTGTATA TCCTCCAGTC CAAGATTAAA GAGGCGGACT GTGAAA 46

(2) INFORMATION FOR SEQ ID NO: 6772:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 108  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08000  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6772:  
 GATCCAAACT CATTCTTNCT GTAACCTCAT GATGACGTAT AACCNITTCC ACCTCACTNG 60  
 GAGGTTGGNT CTNCATTCTG AAGGCTTCTA TGTATACATA TTAAATAN 108

(2) INFORMATION FOR SEQ ID NO: 6773:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 218  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08001  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6773:  
 GATCAACGAC GACCTTTTTT CTTTTNATAC TAAAGTAAGA AATAAGAATG TNAGCCCCAA 60  
 CTGCACTATT TTGCAGACCC CTACCATTTT ACAAAGTGGT CAGAGTGGAA AATTCCACCA 120  
 GGGCCTGAGC TGTGAGAAAC ATCCTGTCAG GCAGGNCCCA GGNCTNAACC CCTGGCTGCA 180  
 CTAANTTNCT TCATNATCAN CAGCCTAACA NACCGTCN 218

(2) INFORMATION FOR SEQ ID NO: 6774:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 38  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear



(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08002  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6774:  
 GATCAACAGT GCAGAGAATC TAGCAAGTAT AAAAGAAA 38

(2) INFORMATION FOR SEQ ID NO: 6775:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 252  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08003  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6775:  
 GATCTGCAAC ATGAANCCCG AGGCATGGGT TGGTGTGATG CCAAGGCAAA GTGGTGAGGA 60  
 GAAAACAGGA AACGGNCTTT CTCTGAATTG GTAAATGGGA AAGAAGTGAG CAACTTAAGA 120  
 TTGTCACANT TAATCACAAG TGTACAGGAT TAGACTGGGT TTATATTAA CTCTTGCTTC 180  
 ATAGGTGTAC CATTAAAGN GTGTTATNTA NTGCTAAGAA NTAAGTCTT TNATAAAGCT 240  
 TATTNNNNAA TN 252

(2) INFORMATION FOR SEQ ID NO: 6776:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 34  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08004  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6776:  
 GATCAAAGGG AATAAAGAGA ACTCTTGGCT GAAA 34

(2) INFORMATION FOR SEQ ID NO: 6777:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 107  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08005  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6777:  
 GATCATATNC TTTTCTNTT TTGTTCTTA CAATATCAAT CTAATTTAAT ATTCTCTGT 60  
 GAGAACACAA ACATNNGTAA ATTGCTCAGT AGTGGCAGCA GTAAGGN 107

(2) INFORMATION FOR SEQ ID NO: 6778:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 112

(B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08006  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6778:  
 GATCAAGGTT TGTNTGCCCA TTACCTTTCC TCTGCCTGAA AGACGTGTCT CAAGAAAAAT 60  
 AAATTCTATT TNAGATGCAG GTACTNATAN TAATTCTAAG ANTTGATATC AN 112

## (2) INFORMATION FOR SEQ ID NO: 6779:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 140  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08007  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6779:  
 GATCAGAGNA AACGNCTTTA ACNCCACCAT TAGCACCCAA AGCTAAGATT CTAATTTAAA 60  
 CTATTCTCTG TTCTTTTCATG GGGAAGCAGA TTTGGGTACC ACCCAAGTAT TGACTCACCC 120  
 ATCAACAACC GCTATGTAAA 140

## (2) INFORMATION FOR SEQ ID NO: 6780:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 173  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08008  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6780:  
 GATCAATCTC ATATTCATTC CCTGGGATGT TTAGTTACCA GTTTTCCCAA AGTGTCTCTGG 60  
 TAGCATCTAC CATATTTNAT CAAATCTGTG ATTCCTTTGA TTATNATATG AACCATTATT 120  
 TTATGTATCA TTAAGAAAAA ATACTGCCAA TTAAACTCTG TCATGNNAAC AAA 173

## (2) INFORMATION FOR SEQ ID NO: 6781:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 186  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08009  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6781:  
 GATCCAAGTT GAGATTTTAA TTCTGTGACA TTTTACAAG GGTAATATGT TACCACTACT 60  
 TTAATTATTG TTATACACAG CTTTATGATA TCAAAGACTC ATTGCTTAAT TCTAAGACTT 120

TTGAATTTTC ATTTTAA AAGATGTACA AAACAGTNTT GNAATAAATT TNAATTCGNA 180  
TATAAA 186

(2) INFORMATION FOR SEQ ID NO: 6782:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 102
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08010

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6782:

GATCCATTTT TNATATGTCT TGAAGTACTG TGTCTAGTGG GCAAATGTCA TTGTACCTC 60  
TGTGTGTAA GAAAATAAAA ATATTNCTA AAGGTCTGTA AA 102

(2) INFORMATION FOR SEQ ID NO: 6783:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 198
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08011

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6783:

GATCAAGTAG ATTTTAA AATCAGAGTC AATTAATTTT AATTGAAAT TTCTCTTATG 60  
TTCCAAGTGT ACAAGAGTAA GATTATGCTC AATATTCCCA GAATAGTTTT CAATGTATTA 120  
ATGAAGTGAT TAATTGGCTC CATATTTAGA CTAATAAAC ATTAAGAATC TTCCATAATT 180  
GTTTCCACAA AACTAAA 198

(2) INFORMATION FOR SEQ ID NO: 6784:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 278
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08012

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6784:

GATCAGAGTA AACNTGGAG CTAGATTGAT TACAGAGTGC AAGGACTAGG CACCCCGGGA 60  
TTGGAGAGCA TCCTTGAAAG CAAGGGTTCT TCATTTATTT ATAAAAATTT NATTCCTAC 120  
TAGAAGCCCA GCTAAGAGTA TGAAGCAATT AAGACAACAN TCTTTGCTCA AGAATCTCCT 180  
AGACAATCCT GATTCAAGCA CCAGAAACAA AGGGNNAAGA AACCTCCAG TCTNGTGNG 240  
NAAGTNGTAC ACATCNTGTC AACAGNTAGG TTNTTTN 278

(2) INFORMATION FOR SEQ ID NO: 6785:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 339
- (B) TYPE: nucleic acid

(C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08013  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6785:  
 GATCCCATGT NAGCTACACA GTGCAGAGGC TCTTGATGGT GGAATAAGCA ATTCCTCCC 60  
 TCGTGCGCAT CTCAGAACCC ATCGGTAGGC AAAGGAAAAT ACGCTCAGGT GGTGTGGNN 120  
 NAGNCTGTNT CAGGCCTACG GAGTCAGCCA GTGGCTAGCG CAAGACCAGT CACTCCCTCT 180  
 GCNTTCAGGC TTCTTTCAAT TTCATTATCA TCAAGCAGGA ATTATGTCGT AAGTCACTGA 240  
 CCCTAACTGC AGACCATGAA GTAAATTATG TAACTAGGTT TTTNNCTTCT CCAGTGGTGA 300  
 CCACCNNCNC NCATNCCCCG GTNANAACCT GGGTTTTTN 339

(2) INFORMATION FOR SEQ ID NO: 6786:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 80  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08014  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6786:  
 GATCGCCTAT TACTGACAGT CTCATTGTAG CTCTAAAAAG CCTAATGTAT CCACTGTGGA 60  
 ATAAACTCCA TAGACTCAAA 80

(2) INFORMATION FOR SEQ ID NO: 6787:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 279  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08015  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6787:  
 GATCTTGAAG AGACCGCTGG CAGCACCAGT ATTCCCAAGA GGAAGAAGTC TACACCCAAG 60  
 GAGGAAACAG TTAATGACCC TGAGGAGGCA GGCCACAGAA GTGGCTCCAA GAAAAAGAGG 120  
 AAATTNTCCA AAGAGGAGCC GGTCAGCAGT GGGCCTNNAG AGGCGGCTNG CAAGAGCAGC 180  
 TCCAAGAAGG NAGGAAAAAG TTCCNTTAAG CATTNCCNGG GAGNTTTGAA TTCAAAATTG 240  
 GGCATTNTTN TTTGGGGGTT GGGNNATTCC CTTGGCCCN 279

(2) INFORMATION FOR SEQ ID NO: 6788:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 192  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08016  
 (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6788:

```
GATCCACTCA CCTCGGCCTC CCAAAGTGCT GGGATTACAG TGCCCCGTCCG TGATGATGGG 60
AACATGNCCG ACGTGCCCAG NCACCCCCAG GACCCTCAGG GCCCCAGNCT GGAGTGGCTG 120
AAGAAACTGT GAGCACCTCC ACTGACAGAG GCGGCCCCCTC CCACGGCTCC CAATAAAAAT 180
GTGAAAACCA AA 192
```

(2) INFORMATION FOR SEQ ID NO: 6789:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 303  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08017

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6789:

```
GATCCGTATC GNTTTAAGAA GCGGACGGAG CTGTTTCATTG CCGNCGAGGG CATTACACAG 60
GGCCAGTTTG TGTATTGCGG CAAGAAGGCC CAGCTCAACA TTGGCAATGT GCTCCCTGTG 120
GGCACCATGC CTGAGGGTAC AATCGTGTGC TGCCTNGAGG AGAAGCCTGG AGACCGTGGC 180
AAGCTGGCCC GGGCATCANG GGACTATGCC ACCGTTATCT CCCACAACCC TTNGACCAAG 240
AAGNCCCATT TTGAANGTTG CCCTNCGGTT TCCAAAGAAN GTTTATCTCC TTAANGCCAA 300
TCN 303
```

(2) INFORMATION FOR SEQ ID NO: 6790:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 267  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08018

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6790:

```
GATCTAAAAA TCAATGAGAA CATAATTTTA ATTGGCAGTT CTTAGAAAAA ATGTGAATGG 60
CTTATAAACA TAAATGTAAT ACTCAGCTGC TGTCATCATC AGAAGAATGA AGTTGTTTTT 120
AAGCTCTTCA NCTGTCAAGN GTAAGAAGCA ATGTTACTAA TACCGGCAAG NTATGAAAAG 180
ACGCTCATAC ATTGTTGGAA ATNAANGTTG GTATNGCTTT TCAGCGGCCN ATNAACATAA 240
TCCCNNTNTT TCTTCCCTAC NNACTCN 267
```

(2) INFORMATION FOR SEQ ID NO: 6791:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 189  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08019

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6791:

```
GATCATCTGG CAAGACAGCC CAAGAATAAA GCCGTCACCA TGGAGACTAA GAAGNGNCAG 60
```

AAAGNCACTG GGTCTTCATT GTNTCGTCCA GCTGTTCATG AGGCCTTATC TGAAGCCCAC 120  
 GTGACCTCCG GNCTACTCAC TTACATGCGN GAATAAAAGC TCTATTTTGT TTTAGGNCCN 180  
 AAATAANTN 189

## (2) INFORMATION FOR SEQ ID NO: 6792:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 129
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08020

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6792:

GATCTGCTGG CAGAGGNCAA TCAAAAACGA CAACAAGCTT CTTCCCAGGG TGAGGGGAAA 60  
 CACTTAAGGA ATAAATATGG NGCTGGGGTT TAACACTAAA AACTAGAAAT AAACATCTCA 120  
 AACAGTAAA 129

## (2) INFORMATION FOR SEQ ID NO: 6793:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 267
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08021

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6793:

GATCAGGACC CACCTCCAGT TCTNCTGAAA GTNTGACAGT GTCCAGCCGG TTCTGCAGCA 60  
 CTAGGGGAGG GGGCAGATGG TGGTTGCATG GGCTTCCTGG GTCTCCACTC TCCGTCTGGC 120  
 CTAAAGGTGA TGTATTTGGT GTTTGGNCCT GCAGTCCCCA CTNTTAAGGC TTAAGGCGGA 180  
 TGTGGAACAN CACTTTCTTT CAGGAGTAGG TNGTNTACT TGTACCTCAT TTAGGGCTTA 240  
 GAAAGTTTTN CCNCACTN NAAAAAN 267

## (2) INFORMATION FOR SEQ ID NO: 6794:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 122
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08022

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6794:

GATCTACAAA ACAGATAGNG NAAAGTACAA CAGAATAGCT CGGGAATGGN CTCAGAAGTA 60  
 TGCGATGTAA TTAAAGAAAT TATTGGATAA CCTCTACAAA TAAAGATAGG GGNACTCTGA 120  
 AA 122

## (2) INFORMATION FOR SEQ ID NO: 6795:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 56

(B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08023  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6795:  
 GATCCCACTT GTAGATGCTT GCACTCACAC AATAAAAACG TCTGNTATTT GCCAAA 56

(2) INFORMATION FOR SEQ ID NO: 6796:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 130  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08024  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6796:  
 GATCCGTGGT TCCCTGCAGA CTGGCAGGAG CAGATTCCAA AGGCACAGGA AGAAGCTTGC 60  
 AGGTAGAATG TGTTCAATAC CTTCTGCGCA TTATACCACA AAAAAGCTGG GNATAAAAAT 120  
 GCTAACCAAA 130

(2) INFORMATION FOR SEQ ID NO: 6797:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 234  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08025  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6797:  
 GATCTGCCCC ATGATTGGTT CCTTAGGANC AAGNAATTTA CAAGTAGNAA TTATTCCTTT 60  
 CAGAGTAACA TGCTGTATTA CTTCAATCCC TATTTTGTGTC TGTTCCATTT TCTTTGGATT 120  
 CCCTATTCAC ATTGAATCCT NTTTGCCCTT CTGAAACAAT ATTCAGTCAC AAGNGNTTTT 180  
 GGTCATGTTG GTCTTTGTAA CAAATNAAAN TTACCTTATA TCCTTCTGGA CAAA 234

(2) INFORMATION FOR SEQ ID NO: 6798:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 246  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08026  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6798:  
 GATCACAAGG TCAGGAGTTC GAGACCAGCC TGGCCAATAT GGTGAACCTC ATCTCTATTG 60  
 AAAATACAAA AATCAGCCAG GCACGGTGGC AGGCGCCTGT AGTCCACCTA CTCGGGAGGC 120

TGAGGCAGGA GAACTGCTTG AACCCAGCGG CAGAGGTTGC AGTGAGCCAA GATTGAGCCA 180  
 CTGCACTCCA GCCTGGTGNT AGNGCGNGCT CTGTCTCTAA ATAATNANNT AAANTNCNTT 240  
 AANNNN 246

## (2) INFORMATION FOR SEQ ID NO: 6799:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 114
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08027

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6799:

GATCAGTGTT AAAC TAGATT GTATTCATTA CTAGATAAAA TGTATAAAGC TCTCTGTACT 60  
 AAGGNGAAAT GACTTTTATA ACATTTTGAG NAAATAATAA AGCATTTATC TAAA 114

## (2) INFORMATION FOR SEQ ID NO: 6800:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 274
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08028

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6800:

GATCTTTTGT GCCAAGATGC AGGGAAATNA AGAAAGCTCT TTCCAGCTGT TTTNATGGAT 60  
 TCATGGAGTG GGCTCATGTT GGGACCAGCT GACTCTGGGN GGAAGACTGC CTCTCCATCG 120  
 CTGTCAGAGA GCCTGAAAGG ACCAACAATG AGNTGTTCTT GGGACCCGCC ATGGGGATGA 180  
 TTGCTTCTCT AGGCTNCTGG CTGTTGCTGC ATTCTAAGGN TTAACCTCCT GGTCTNATGG 240  
 TAGTGANCTT GAGCTTTTNN ATTCNATAGN AGNN 274

## (2) INFORMATION FOR SEQ ID NO: 6801:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 42
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08029

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6801:

GATCTGTGNA GNAATGAAAT AAAATGGAGA AGAAGACAGA AA 42

## (2) INFORMATION FOR SEQ ID NO: 6802:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 228
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear



## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08030

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6802:

GATCCAGTTT CAAGAATGGG CAGGTAAACG CAGNANGAGG AAAGGAATGT GGAATGAGAA 60  
 CTTGGTGGTT CACCGCTGTA CTATTTGTGT AAATGTTTAC GTATGTNATA AGCTACATGT 120  
 ATGTAAATNT TGCAATACCC CTAACAGTCG AGTAGTAGTC TCCCTTACAG GAATTTTGA 180  
 CGGGGTTCCCT CATCATCAAT ACCAAATAAN TATATGTAGG NNTGAAA 228

## (2) INFORMATION FOR SEQ ID NO: 6803:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 180  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08031

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6803:

GATCATATTC TTGAAATTTT TATAAATATG TATGGAAATT CTTAGGCTTT TTTTACCAGC 60  
 TTTGTTTACA GACCCAAATG TAAATATTAA AAATAAATAT TTGCAATTTT CTACAGAATT 120  
 GAATACCTGT TAAAGGAAAA TTACAGAATA ANCTTGTGAC TGGTCTTGTT TTACATTAAA 180

## (2) INFORMATION FOR SEQ ID NO: 6804:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 277  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08032

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6804:

GATCATTCCG AGGTCATTTG AGGACGCACA CTGGAGAGAA GCCTTATNAG TGTAACAAT 60  
 NTGGAAAAAC CTTCACTTGG TNCTCAACGT TTAGAGAACA TGTNAGAATT CACACGCAAG 120  
 AGCAGCTCCA TAAATGTGAA CACTGTGGGA AGGCCTTTAC CTCTTCCAGA GCATTCCAAG 180  
 GTCATTTGAG GATGCACACT GGAGAGAAGC CTTATGAGTG TACACAATGT GGANAAACCT 240  
 TCACTNGGGG CCTCAANCCT TACNTAATAA TGTGGTN 277

## (2) INFORMATION FOR SEQ ID NO: 6805:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 273  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08033

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6805:

GATCTACCTC AGTATTCAAG TTCAGTGGGG ACACCAGTGG CTTCAAACCTT CCTGGTTTCA 60

TGATATCTTG AGACGCCTTA CAAATGATGG AGGATTCCAA AGAGTTTTTG TTTATTTGGG 120  
 TTAATATTTG TTGGTATTTA TGGCATTGGA GATTGAAACT AAGNAATGTT TTAATTTATT 180  
 ACCTTTACAA CATTTATTTA CATTACATAC ATACATTTAC AACATTTATT AATTTATNTT 240  
 AAAATAGCAT GNATAAGCCA ATTATNGGTT AGN 273

## (2) INFORMATION FOR SEQ ID NO: 6806:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 207
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08034

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6806:

GATCCACTCT TCTCGNCCTC CCAAAGTGTT GGGATTATAG GCGTGAGCAC ANGCGCCCGG 60  
 CCTGNTNTGG ATATTTCTTA TAAATGGAAT CATAAGTGC TTNTTTCAGT TAGCATAATG 120  
 TTTCCAGGT TCATCCAGGT CATAACACAT AATCAGGCTT CATTTNTTTT TATTACCANC 180  
 TAATATTCTA TGAATATAAA NNNACCN 207

## (2) INFORMATION FOR SEQ ID NO: 6807:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 273
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08036

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6807:

GATCCTGAAG AGATTGAAAA AGAAGAGCAG GCTGCTACTC AGCCTGAGGT TGCAGACTGG 60  
 TCTGAAGGTG TACAGGTGCC CTCTGTGCCT ATTCAGCAAT TCCCTACTGA AGACTGGAGC 120  
 GCTCAGCCTG CCACGGAAGA CTGGTCTGCA GCTCCCACTG CTCAGGCCAC TGAATGGGTA 180  
 GGAGCAACCA CTGACTGGTC TTAAGCTGTT CTTGCATAGG CTCTTAAGCA GCATGGNAAA 240  
 ATGGTTGCTG GCAAATAAAC ATCAGTTTCT AAA 273

## (2) INFORMATION FOR SEQ ID NO: 6808:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 73
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08037

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6808:

GATCTCCAAC ATCTTTGTGT TGAAGGGCCT ACAGAGTAAA CTGTGGGACT CAATAAACAT 60  
 TCGTTACTTG AAA 73

## (2) INFORMATION FOR SEQ ID NO: 6809:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 285  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08038

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6809:  
 GATCACAGCA GACAGGGTCG CTGCCCTGAT GGCCTTACA TTCCAGTGGG TCTAATGACC 60  
 ATATCTTAGG ACACAGATGT GCCCAGGGAG GTGGTGTAC TGCACAGGAA GTATGAGGAC 120  
 TTTAGTGTCC TGAGTTCAAA TCCTGATTCA GGAACCTACA AAGCTATGTG ACCTTACACC 180  
 AGTCACTTAA CTTGTTAGCC ATCCATTATC GCATCTGCAA AATGGGGATT AAGAATAGAA 240  
 TCTTGGGGTT AGTGTGGNGA TTAGATTAAA TGTATGTAAG GCACN 285

(2) INFORMATION FOR SEQ ID NO: 6810:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 62  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08039

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6810:  
 GATCAGTTTC TGGCACATAA ATGCCTCAAT AAAGATTAA TTACTTTGTA TAGTGCTTTA 60  
 AA 62

(2) INFORMATION FOR SEQ ID NO: 6811:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 237  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08040

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6811:  
 GATCATTGGC TATGACAGAG AACCCGTCTC TCAAGCAGCA GCTCTTCTCC TATGCCATTC 60  
 TTGGCTTTGC CTGTCTGAGG CCATGGGGCT TTTNTGTTTG ATGGTCGCCT TCCTAATCCT 120  
 NTTCCCATG TGAGGNTCCA TGGGGGGTCA CCGGANCTGT TGATACTGCA ACTACACACC 180  
 ATNTTGGTG CTGGGGTGTG TTAAGATTAA ACCATTNANC ACAACGTTTC TCTNAAA 237

(2) INFORMATION FOR SEQ ID NO: 6812:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 215  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08041

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6812:

```
GATCAGCAAA TTTAAGAGAA GACCTAGCTA TGTTGGCTGG TTGCTTTCTA TTATCATGGT 60
ATTTGACCAT TTTAGTTTTA ATTCCATGTC AGATAAGTGT AAATAGAAGA GTTTAAAAGC 120
ATGANACATT TCAGANGGTA TCAGTTATAT GATATTCTTT AANCANNTAT GACACATGTA 180
AATCCTCNTG ANTGACAATN CATCTNTNTG TGAAA 215
```

(2) INFORMATION FOR SEQ ID NO: 6813:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 181  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08042

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6813:

```
GATCTAAAAG CCATATCCTG TCTTTGGTGG TGGCCTGGTA GGAATGGCTT GTNCTAGTTC 60
TTCAAAGGTA AGATTGACCA AAGCAAGTTC TCATTGGTGG TCTGTGTTTA CATCTTCCGT 120
GTCAAGNTAT TTAAAGCAT GNAAATAAAG CCATTCTTGC CCTTTTTCGT GTGTTTGCAA 180
A 181
```

(2) INFORMATION FOR SEQ ID NO: 6814:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 162  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08043

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6814:

```
GATCTCAGGC TTCTGCAGTT CTCATGACTC CTACTTTTCA TCCTAGTCTA GCATTCTGCA 60
ACATTTATAT AGACTGTTGA AAGGAGAATT TGAAAAATGC ATAATAACTA CTTCCATCCC 120
TGCTTATTTT TAATTGGGA AAATAAATAC ATTCGAAGGA AA 162
```

(2) INFORMATION FOR SEQ ID NO: 6815:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 431  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08044

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6815:

```
GATCTCAGCG GGGAGCCACG TCTCTGCAC TGTGGTCTCT GCATGGACCC CAGGGCTGTG 60
GGGACTTGGG GGACAGTAAT CAAGTAATCC CCTTTTCCAG AATGCATTAA CCCACTCCCC 120
TGACCTCACG CTGGGGCAGG TCCCAAGTG TGCAAGCTCA GTATTCATGA TGGTGGGGGA 180
TGGAGTGTCT TCCGAGGTTT TTGGGGGAAA AAAAAATTN TAGCATATTT AAGGGAGGCA 240
ATGAACCTN TCCCCCANCT NTTNCCNGCC CAAATNTGTC TCCTAGNATC TTATGTGCTG 300
```

GGAATAATAG GCCTTNACTG CCNTCNGNT TTATAGGCCN ANGGGTCCCG GTTCCCGGG 360  
 AACTGGAACC CTTCTGAGG GGGAATCCCG GGGCTCAAAT TACCCCNAA AGGAAAGTGG 420  
 CCAAGGCGGT N 431

(2) INFORMATION FOR SEQ ID NO: 6816:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 231
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08045

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6816:

GATCTGTTTC TAAAGCGTTA CGCATCTTTN CTGAAGTATG CTGGAGAGCC TGTCCCTTTC 60  
 ATTGAACCCC CTGAAAGCTT TGAATTTNAT GCACAGCAGC TAAGAAAATT GAGGGAAAAC 120  
 TCTTCTTGAA ATAACCAGGC GATACTTTGT TTTGTATATA TTTGTGATTC TGTGTCTACA 180  
 TGTTATTTTG AAGTATATCT GAGGGAANNG GGAATGGAAA TTTTCTTTAA A 231

(2) INFORMATION FOR SEQ ID NO: 6817:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 147
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08046

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6817:

GATCCTTCCA GCTGCTCTTC CATAACTTCA TCTCTCCCCT CAACACCTGC AACCACTAAG 60  
 CCATTTTCCC CCTACCCGTC TGTAATTTTG TAATTTTGAG AATGCCAGGT AAATGGAATC 120  
 AGAGCGGATA ATCTTTGGAG CATGAAA 147

(2) INFORMATION FOR SEQ ID NO: 6818:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 101
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08047

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6818:

GATCATTTAT ATTTAAGTTT AAAAGGAGGN TGAGACTGAG TTTTGTAGA GTTATAATNA 60  
 CATTCAAAT ATACTTTTTT GCATTGNNA AATGTTAANT N 101

(2) INFORMATION FOR SEQ ID NO: 6819:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 236
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single

(D) TOPOLOGY: linear  
(vii) IMMEDIATE SOURCE:  
(B) CLONE: HUMGS08048  
(ix) FEATURE:  
(D) OTHER INFORMATION: "N"=unidentified base  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6819:  
GATCAAGCCA AACAGTAAAA ACTACCAAGA GAACACGAGG AAGGCAGAAA CGNTGTTT TAG 60  
CAACAGTATT CTGCATGGTT CACTGCTTAA GAAAATGCCT TCTGGAATAT TTGTAAACTG 120  
AAATTCTGTA TGTGTAAGNG NTGTTTAAAT ATGTTTGGGT CCTAAACAGC TTTTAAAAAT 180  
TATACTTGGG CNTAANTTCA GCATCTTTTC AAATCANCTC TNTGCNCCGC CGCTGN 236

(2) INFORMATION FOR SEQ ID NO: 6820:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 195  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear  
(vii) IMMEDIATE SOURCE:  
(B) CLONE: HUMGS08049  
(ix) FEATURE:  
(D) OTHER INFORMATION: "N"=unidentified base  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6820:  
GATCATTTTG TTTGTTGCTC TCTCTAGTGT CTTCTTCTCT CGTCAGTCTT AGCCTGTGCC 60  
CTCCCCTTAC CCAGGCTTAG GNTTAATTAC CTGAAAGATT CCAGGAAACT GTAGCTTCCT 120  
AGCTAGTGTC ATTTAACCTT AAATGCAATC AGGAAAGTAG CAAACAGANG TCAATAAATA 180  
TTTTTAAATG TNAAG 195

(2) INFORMATION FOR SEQ ID NO: 6821:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 160  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear  
(vii) IMMEDIATE SOURCE:  
(B) CLONE: HUMGS08050  
(ix) FEATURE:  
(D) OTHER INFORMATION: "N"=unidentified base  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6821:  
GATCATAAAT ATTTTGTAAT GAAATACTTC CNCTTTTCCA GGGCTTTGTA TGCACTTGTA 60  
TAATTACATT GATGGCAATG TAGNGTTTGA ATTTTCAGTCT GTAAATACTT TTNTGGNAAA 120  
TAGNAATTTT NATTGCTTTA AAGTTTGGGA TATGGGTGGN 160

(2) INFORMATION FOR SEQ ID NO: 6822:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 157  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear  
(vii) IMMEDIATE SOURCE:  
(B) CLONE: HUMGS08051  
(ix) FEATURE:  
(D) OTHER INFORMATION: "N"=unidentified base  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6822:  
GATCTATAGG AAGATTGAAC CTGAATATTG CCATTATGCT TGACATGGTT TGCAAAAAAT 60

GGTACTCCAC ATACTTCAGT GAGGGTAAGT ATTTTCCTGT TGTCAAGAAT AGCATTGTAA 120  
 AAGCATTTTG TAATAATAAA GNATAGCTTT AATGAAA 157

(2) INFORMATION FOR SEQ ID NO: 6823:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 150
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08052

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6823:

GATCCAGNTT GTTGCATCAA TAGTTCTGTT TTTAGTACTG AGTGGGATGT CAGTATAGAT 60  
 GTACCATAGT AAACACCTGT GGAAGGACGT CAGGAATGTT TCCTGTTATT AGGTATCTAA 120  
 ATAAAGTTGC TGTAAACATT TGTGTACAAA 150

(2) INFORMATION FOR SEQ ID NO: 6824:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 268
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08053

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6824:

GATCTGTCCA CTTTGCTCTC ACGGACGTGG CATTTGCCAG GAAGGAGAAC CCAGCAGGAA 60  
 CGGAGGTCTC TGCCTTCACC TACAGTGAAG GGGCTGGTAT GTGAAATACT TTCACTGAGC 120  
 TTAGTGAAAA ATTCAATTTA CACCCTAGTT AGCTCCAGA AAGGTTNAAC TTTCAAGANG 180  
 GTCAAAATAT GNAGCCTGTT ATATGTGTAA TTAAAAAGN NNTAGNATAT CCCAAATGGN 240  
 ACATTTTCAGG NATTAANTAA TTGNAATN 268

(2) INFORMATION FOR SEQ ID NO: 6825:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 197
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08054

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6825:

GATCTGAGAA GTGAGTGTA GGAGTTTAA TCAACCTCTG TTCTGTGCTA GTTAAGGTAA 60  
 TAAAGTTGCT GCAGTCCAGG GGGTAGGTAC CTGTGGACGG CTCTGCGAAT AGGNCAGTTG 120  
 CATTTCTTGG GAATCAAGTG CATCCCTAGG CTGGCAGTGC AGCAGAAATA CTGAATAAAA 180  
 TGTGACAAAT CTCCAAA 197

(2) INFORMATION FOR SEQ ID NO: 6826:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 196

(B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08055  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6826:  
 GATCAAGTAA AAATGAAGGA CAACGTGAAG TTAAAGTTC GATGCAGCAG ATACCTTTAC 60  
 ACCCTGGTCA TCACTGACAA AGAGAAGGCA GAGAACTGA AGCAGTCCCT GCCCCCGGT 120  
 TTGGCAGTGA AGGAACTGAA ATNAACCAGA CACACTGATT GGAAGTGTAT TATATTAAAN 180  
 TNCTAAAAAT CCTAAA 196

(2) INFORMATION FOR SEQ ID NO: 6827:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 213  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08056  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6827:  
 GATCATCAGT ACTGTTGTCT CATGTAATGC TAAAACTGAA ATGGTCCGTG TTTGCATTGT 60  
 TAAAAATNAT GTGTGAAATA GAATGAGTGC TATGGTGTG AAAACTGCAG TGTCCGTTAT 120  
 GAGTGCCAAA AATCTGTCTT GAAGGCAGCT ACACTTTGAA GTGGTCTTTG AATACTTTTA 180  
 ATAAATTTAT TTTGATAAAT AATATTGAAC AAA 213

(2) INFORMATION FOR SEQ ID NO: 6828:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 133  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08057  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6828:  
 GATCGTCCTG CAGGTATTTT GCAAGCCCCT ACTGTCCGCC GACATCAGCG TGAATCTCAC 60  
 ATGGTGCACT TGGCTCCCTG GGGGAGTNTT NGCNTCTCCT GTTGTCTTTT CCCAAAACCA 120  
 NTAAAAACCA TGN 133

(2) INFORMATION FOR SEQ ID NO: 6829:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 269  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08058  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base



## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6829:

GATCTGCTAC ATTTTAAAAG TGGGCATGAA AATCTTCTGT TATGTATGTA CTGTCATTAA 60  
 TTCTGTTATT TTTNCCCACT AGTACTATCA ACTACAGTAA AGACCTTCCT CTGGCCCAAG 120  
 GAATCAAGTT TCAGTAAAGG TGTTTTAGAT GANCATCCCT TAATTGAGG TGTTCAGCA 180  
 GCTGTTTTTG GNGANGACAA AGNAAATTAA NGTTTTCCCT GAATAANTGC ATTATTNTGA 240  
 CTGTGACAGT GNCTAATCCC CCTATGGTN 269

## (2) INFORMATION FOR SEQ ID NO: 6830:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 297  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08059

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6830:

GATCTATCCA ATAAAGGAGA GAAACAACCG CACACGCTG GCTCTCATCA TATGCAATAC 60  
 AGAGTTTGAC CATCTGCCTC CGAGGAATGG AGCTGACTTT NACATCACAG GGATGAAGGA 120  
 GCTACTTGAG GGTCTGGNCT ATAGTGTAGA TGTAAGAGAG NATCTGACAG CCAGGGATAT 180  
 GNGTTCAGCG CTGAGGNCAT TTGNTACCAG ACCNNGNCAC AAGTCCTCTG NCAGCACATT 240  
 CTTTGGTACT CATGTNTCNT GGCATCCTGG NGGGGTNTCT TCGGGAACCT GTTCTGN 297

## (2) INFORMATION FOR SEQ ID NO: 6831:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 174  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08060

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6831:

GATCATGGTG GTTTGGCAGC AGGGAATTTG TCTTGTGGA GCCTGCTCTG TGCTCCCCAC 60  
 TCCATTTCTC TGTCCCTCTG CCTGGGCTAT GGGAAGTGGG GATGCAGATG GCCAAGCTCC 120  
 CACCCTGGGT ATTCAAAAAC GGCAGACACA ACATGTNGCT CCACGCGGCT CAAA 174

## (2) INFORMATION FOR SEQ ID NO: 6832:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 253  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08061

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6832:

GATCAATTTT GGAGACCTTG GCCGCCCAGG ACGTGGCGGC AGGGGAGGAC GAGGTGGACG 60  
 TGGGCGTGGT GGGCGCCCAA ACCGTGGCAG CAGGACCGAC AAGTCAAGTG CTTCTGCTCC 120  
 TNATGTGGAT GACCCAGAGG CATTCCCAGC TCTGGCTTAA CTGGATGCCA TAAGACAACC 180  
 CTGGTTCCTT TGTGAACCCT TCTGTTCAAA GCTTTTGCAT GCTTAAGGAT TCCAAACGNC 240

TACTGTAATT AAA

253

## (2) INFORMATION FOR SEQ ID NO: 6833:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 86
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08062

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6833:

GATCATGAAC CAAAGGAATT TATGTTTTGT AACTTGGGTA CTTTATTTTG CATTTTGTTA 60  
TACTATTAAA TANTTTTNTC CTGAAA 86

## (2) INFORMATION FOR SEQ ID NO: 6834:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 124
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08063

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6834:

GATCCAAGTT TCACTTTTTG TGATATAATG AGCCAGTTTT CTCAGTAATG TCTACTAAAA 60  
AAAAAGCCAT TAACCNGGNT CTAATATTTG CATGATTCTA ATAAANGTAT GTCAACTTCT 120  
TAAA 124

## (2) INFORMATION FOR SEQ ID NO: 6835:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 107
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08064

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6835:

GATCCCCTCA GAAGGCAGGA GTGCTGCCCT CTCCCATGGT GCCCGTGCCT CTGTGCTGTG 60  
TATGTGAACC ACCCACGNGA GGNATAAAC CTGGCACNNG GACCAAA 107

## (2) INFORMATION FOR SEQ ID NO: 6836:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 125
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08065

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6836:

```
GATCCTCCTG TCTTGGTTTC CCAAAGTGCT GGGATTGCAG GTGTGAGCTA CTGCACCCGG 60
CCCAATAAAA AAATCTCGTT CTGTGAAAGA AATGTTAAT AAAAGTTGTA TTGTCAAATT 120
TTAAA 125
```

(2) INFORMATION FOR SEQ ID NO: 6837:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 178  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08066

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6837:

```
GATCACTAAG ATTAGCTATA TCTATACAGT CATTAGTTTG ACAAGAAATA GNATCCTGTC 60
AGATGCCAAA GAGTGGGATT TTNATGTTTA ATGATTAAAC ACCATTATTT ATTGACAATT 120
TACCCTGTGG AACTGTATTA TTTCTAACTA TGAAATAAAG GGGTGATGTA AACACAAA 178
```

(2) INFORMATION FOR SEQ ID NO: 6838:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 222  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08067

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6838:

```
GATCCCCGGC CAAGCCAGT CACGNGAATT TAAGGCTCTT CTCTCCGGCT CCAGCCTGTG 60
CCTGTAATTG TCCAGGANTG GCCTAGGCCG ACACCTTCTG CTGCCCCGGA GTCCCCCTCC 120
TGGGTGGGAT GCTCACTACA GCTCTGATGT ATATAGCACA CAGCCCAANT CCGACCCTCC 180
GGTCTGTCGC CAATAAAGNG GGGTGTGTTT CANTCCGGGA AA 222
```

(2) INFORMATION FOR SEQ ID NO: 6839:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 198  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08068

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6839:

```
GATCCCAACA GGCCCTGGCA GCGTCTGGAC ATGTGTAAAC AGCAGCAGTC ACGTTCCTCG 60
GCTGNACAAA CCAACACNNN AGCAGGTTTT CCATTTTCTG TACTTTNATA TTTCTGTTCA 120
ACCTGTTGGT TTCTACAATG ATTTTAAACA TTGGNAAGNC AGCCTTGNGT ATATTTTAA 180
AAATTATATT NAAAATGN 198
```

(2) INFORMATION FOR SEQ ID NO: 6840:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 284  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08069  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6840:  
 GATCATGAAA CTTAGTAGAG GGGATTGTGT GTATTTNATA CAAATTTAAT ACAATGTCTT 60  
 ACATTGATAA AATTCCTTAAA GAGCAAACT GCATTTAATT TCTGCATCCA CATTCCAATC 120  
 ATATTAGANC TAAGNTATTT ATCTATGAAG ATATAANTGG TGCAGAGAGA CTTTCATCTG 180  
 TGGATTGCGT TGTTTCTTAG GGTTCCTAGC ACTGNTGCCT GCACAAGCAT GTGNATATGT 240  
 GANATNNNAT GGATTCTTCT ATAGCTAAAT GNGTTCCTC TNGN 284

(2) INFORMATION FOR SEQ ID NO: 6841:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 114  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08070  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6841:  
 GATCCACCTG CTTCCGCCCTC CCAAAGTGCT GGGATTACAG CTGTAAGTCA CTGATNCCGG 60  
 NTGCATGTCA AGCACATTGG NAAGTTCTTA CAACAATTCT GNTGGAGGNT TTTN 114

(2) INFORMATION FOR SEQ ID NO: 6842:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 253  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08071  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6842:  
 GATCTGTCTC TCAAAGGAAG AAACAAAAAC CCAAATTTT GACTGCAAAA GATTGACTAA 60  
 TTCTAGGTGC AAATAACTGG AAATTTAGGA TTGTTATTGT ACTACACAGG TCACAANGTT 120  
 CCAAACCTAT TTCCCTTGTA ATTTTtagTG CATGATTTT CAGAATGCAG TTTCTATCTT 180  
 TTTAGGTGCA ATATTACGAA CTGCTTAGGT CAGANCANTT TNGTNTCTCC AGTTTTTTTCT 240  
 CCCTANGTTA CAN 253

(2) INFORMATION FOR SEQ ID NO: 6843:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 103  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08073  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6843:  
 GATCTTATAA CCTCATTGTT TCCTAATCAT TTTATTTTCAT CTCCTGCTAG TACTGTGCCG 60  
 CTTCCCCCTC CCCCCACACA AAATAAAAAC AGTATCTGCC AAA 103

(2) INFORMATION FOR SEQ ID NO: 6844:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 110  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08074  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6844:  
 GATCCGTGCC CCACCTCTCC CCAGTTAAGT GCCTTCACAC AGCACTGGTT TAATGTTTAT 60  
 AAACAAATA GAGAACTTT CTTTATAAAT AAAAGTAGTT TGCACAGAAA 110

(2) INFORMATION FOR SEQ ID NO: 6845:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 246  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08075  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6845:  
 GATCAGGGCT GAGGGTAAGG AAAAGAAGAG ACTAGGAAAG CTGGGCCCAA AACTGGAGAC 60  
 TGTTTGTCTT TCCTGGAGAT GCAGAACTNG GCGGCTGGAG CAGCAGTGTC AGCATCAGGG 120  
 CGGAAGCTTT AAAAGCAGCA GCGGCTGTG CCCCAGGGCA CCCAGAATGA TTTCCCTATG 180  
 GGCACCAGGC CAGNGAAAAA ATTGGGCAGC NTCTTTAAAG GGNGGAAAAT TGTTTTTGAGC 240  
 CCCAAA 246

(2) INFORMATION FOR SEQ ID NO: 6846:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 105  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08076  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6846:  
 GATCTACCTG CATATAACAG TCTCTAAGTT TTTTTTTCAA TCTTGCANTT TGATAATTTT 60  
 GATTTTGGCC ANATTAGNNT AATTTGGGAC TATCCTGAAA CAGNN 105

(2) INFORMATION FOR SEQ ID NO: 6847:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 26  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08077  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6847:  
 GATCAAAAGA GCTGTCTGAC TGCAAA 26

(2) INFORMATION FOR SEQ ID NO: 6848:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 84  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08078  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6848:  
 GATCCCTTGA GCCCAGGAGT TCCAGACCAG CCTGGGAAAT ATAGGGAAAC CCTGTCTTTA 60  
 CAAAAAATA TTTTAAAAAT TAAA 84

(2) INFORMATION FOR SEQ ID NO: 6849:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 217  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08079  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6849:  
 GATCAGATTC CTGACTAACC CCTCTCTTAG AGCTACAGCG AGCTGCATTA CCAGCTTAAA 60  
 ACACTTCTTA GGGATTAAAT ATAGNTGTNA TTTTCAAAA TCGTTTTTAA TTTAACTGT 120  
 GTTTTAGTGT AAAATTGTTA ACCTTGTAAG ATGGATANTG TGTATANGAN TGTAGGCCTT 180  
 AACTATTTC AATGAGTCAA ANCANGGCNG CTTTAA 217

(2) INFORMATION FOR SEQ ID NO: 6850:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 93  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08080  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6850:  
 GATCTCACCC AGTGTGCAAT TTGTGAAAT GAACCAAATG TCATTACTTT TGTCTTAAAG 60  
 CAAAGTCTAT TTCAAGNATA TGNACAGCAN AAA 93

## (2) INFORMATION FOR SEQ ID NO: 6851:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 73
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08081

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6851:

GATCAATGAA CCATCTCTTC TGGGCAGTTT TGTGAAAAT AAAGGTTTCT CTTTGATTTC 60  
AAGAATGACC AAA 73

## (2) INFORMATION FOR SEQ ID NO: 6852:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 104
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08082

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6852:

GATCACCGGT TTCCGACTGA GTCTGGGGAT TTNGGCCTTG TTGAACCCTC CTACGGTGCC 60  
CNGGGAATTT GAAANACGCT TTCTGCATNG ATATNTGGGC CCTN 104

## (2) INFORMATION FOR SEQ ID NO: 6853:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 123
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08083

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6853:

GATCAACATC ATTAAAGATT ATGTAAAAAG TTAAAAGGCT TATGAGCCTA AGTTTGTTCC 60  
TATATTACCA TATTTACTGA ATNTTCTGGN AAAGNAACTT TANTAAAGTT TAATCTNAGG 120  
AAA 123

## (2) INFORMATION FOR SEQ ID NO: 6854:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 91
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08084

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6854:  
 GATCACTTGA GCCTAGGAGG CAGNGGTTCA AGTGAGCTGA GATGGCACTC CTGCGCTCCA 60  
 GCCTNGGTGA CAGCGTGAGA NNCTGTCTCA N 91

(2) INFORMATION FOR SEQ ID NO: 6855:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 219  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08085

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6855:

GATCTGTCTAG NACCATTTGA AAACCTTGCTC AAGAGCAGTT GCTTATATAT AGTAGGATTT 60  
 TACTTTTTTCC TGCTTATGTA NTACTATATG CTTAAAAAAC CTGGAGGAAT ACTTACCAAA 120  
 GAGGAGTAAC CATCTCTGAG GGTGGGATTTC TGGGGGANTT TTTGTTTTTT TCTGTTTTTCT 180  
 ATANTGTGCA NCTNTTNTAG TATGTNTNTT NCTAATTGN 219

(2) INFORMATION FOR SEQ ID NO: 6856:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 66  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08086

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6856:

GATCTTNCTC CATTTACAGT ACATTCTTAG GATGTATGTA GTAAATAAAG CTTTCTTTAA 60  
 AGCAAA 66

(2) INFORMATION FOR SEQ ID NO: 6857:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 43  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08087

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6857:

GATCACCCCG TAGGAAATAA AGCAGGCATC TCTGGACCTC AAA 43

(2) INFORMATION FOR SEQ ID NO: 6858:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 338  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:



(B) CLONE: HUMGS08088

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6858:

```
GATCAAAAGA CAGNTAAATN TTTCTTCTAG AACACAGTTA CCCCCTTGCT TCATCTATTG 60
CTAGAACTAT CTCATTGCTA TCTGTNATAG ACTAGTGATA CAAACTTTAA GAAAACAGGN 120
TAAAAAGATA CCCATTGCCT GTGTCTACTG ATAAAATTAT CCCAAAGGTA GGTGGGTGTG 180
NTAGTTTCCG NGTAAGACCT TAAGGCCACA GCCAANCTCT TAAGTACTGT GTGNCCACTC 240
TTGTTGTTAT CACATAGTCA TNCTTGTTG TACTATGTGA TGGTTAACCT GTAGCTNATN 300
ANTNTACTTA TTATTCTNTT CTCCTTTAC CTCANCNN 338
```

(2) INFORMATION FOR SEQ ID NO: 6859:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 251  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08089

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6859:

```
GATCGTTTGC AAGTAACTGA ATCCATTGCG NCATTGTGAA GGCTTAAATG AGTTTAGATG 60
GGAAATAGCG TTGTTATCGG NTTGGGTTTA AATTATTTGA TGAGTTCAC TTGTATCATG 120
GCCTACCCGA GGAGANGNGG NGTTTGTTAA CTGGGCCTAT GTAGTAGCCT CATTTNCCAT 180
CGTTTGTATT ACTGACCACA TATGCTTGTC ACTGGGCANG AAGCCTNTTT CNGCTGCCTN 240
CACGCANTTT N 251
```

(2) INFORMATION FOR SEQ ID NO: 6860:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 359  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08090

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6860:

```
GATCTTAATA TAAATNCACT TTCATTTTNN ATAGCTGTCC CATCTGGTCA TTTGGTTGGC 60
ACTAGACTGG TGGCAGGGGC TTCTAGCTGA CTCGCACAGG GNTTCTCACA ATAGCCGATA 120
TCAGAATTTG TGTGAAGGA ACTTGCTCTT TCATCTAATA TGNTAGCGGA NAAAGGAGAG 180
GAACTACTG CCTTTAGAAA NTATAAGTAA AGTGATTAAA GTGCTCACGT TACCTTGNC 240
CATAGTTTTT CAGTCTATGG GTTTAGTTAC TTTAGNNGGG NAGCNTGTNA CTTATATTAN 300
TAGTANTTTN GTAAAGTTGG NTGGATAAGC TATCCATGTT GCCAGGTTCA TGGATTNGN 359
```

(2) INFORMATION FOR SEQ ID NO: 6861:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 75  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08091

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6861:

GATCCCCAAA CCACAAATAC ATATGTGTGC CTAAGTTTGT GCATGCATAC ATTAAACAGG 60  
 ACATAAAGTG TTAAA 75

## (2) INFORMATION FOR SEQ ID NO: 6862:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 228  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08092

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6862:

GATCATCATG GCAAAACCAG CTGGTGGGCC CAAGCCTCCA AGTGGGAAGA AAGACTGGGA 60  
 TGATGACCAA AATGATTGAA ATGGGCTTAA TTTTACTGT AGGTGAAGGC TGTATTGTGA 120  
 GTAGTACTCA AGAATCACCT GATGTNTTCT TATTCTCCTT AAATTAAGAG TTATTTGTN 180  
 TTTGTNTTCT TGGCTGGATG TTATAATAAN CATATTGTNA CTGTCAAA 228

## (2) INFORMATION FOR SEQ ID NO: 6863:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 299  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08093

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6863:

GATCATGCCT ACTTTCTTCT NTGTATCTCC CTCCTTCCCA GCCCACCCGG GCAGCAGACT 60  
 CTNATGGAAG NAAGGTGCCG TAGTGGGNTT TTAGAACTA ACGGGACTGG TTTTCAAAGC 120  
 AGTTATCTTG GGAACTGTT TATTCCAGCG ATGTGACTTT TTNAGAATA TTTCTTGGAA 180  
 TCATATTCAG AGTCTGGGGC TGTGTGTTGA GCAGCCTTAA GGNTGCTAGA CACTCATTTA 240  
 GTGCCCAGGG AGTCCAGCGA ATGACGTCTG TGGCCAAGCG AGGTCTCAGG TGCAAAGCN 299

## (2) INFORMATION FOR SEQ ID NO: 6864:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 298  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08094

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6864:

GATCCTCTGA ACCTGCAGAG GCCCNCTCCC CGAGCCTGGC CTGGCTCTGG CCCGGTCCTA 60  
 AGCTGGACTC CTCCTACACA ATTNATTTNA CGTTTTATTT TGGTTTTCCC CACCCCCTCA 120  
 NGNNTGTCGG GGAGCCCCTG CCCTTNACCT AGCTCCCTTG GCCAGGAGCG AGCGAAGTGT 180  
 NGGCCTTGGT GAAGCTGCCC TCCTCTTCTC CCCTCACACT ACAGCCCTGG TGGGGGAGAA 240

GGGGGTGGGT GCTGCTGTG GTTTAGTCTT TTTTTTTTTT TTTTNTTTN TNANAAAA 298

(2) INFORMATION FOR SEQ ID NO: 6865:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 296
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08095

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6865:

```
GATCTGCGGG GCAANTTCAA GCNNNCCCCA CTGCGGAGGG TGCGCATGTC GNCCGATGCC 60
ATGCTCAAGG CCCTGCTGGG CTCGAAGCAC AAGGTGTGCA TGGACCTGAG GGCCAACCTG 120
AAGCAGGTCA AGAAGGAGGA CACAGAGAAG GAGCGGGACC TGCGAGACGT GGGTGACTGG 180
AGGAAGAACA TCGAGGAGAA GTCTGGCATG GAGGGCCGGA AGAAGATGTT TGANTCCGAG 240
TCCTAGGCCA CTCGCTGCCC CTACGNCTGC CCCGGTGCCC GGTTCACAGC AGAANN 296
```

(2) INFORMATION FOR SEQ ID NO: 6866:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 310
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08096

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6866:

```
GATCCTGTTC TGTCAGCTGC ACCCTGAGCA AAAACTTGCC ACACCAGNGC TCCTAGAAAC 60
AGCCCAGGCT TTGGAGCGGA CCCTGAGGAA GCCTGGGAGG GGTGTTGGATG ACACGTATGT 120
CTTGTCAGAT ATGCTCAAGA CGGTGAAAAT TGTGTGACTG CTTAGGCCAA GCAGCCCTCC 180
TGCCTAGAAT GACCTTGGAC TCCCAGCCTG CCAGNGAATG NAGAAATACA ACGCACAGTA 240
CTTTTGAAGC TTCGTATTTT TCTTGTTTC AACTCAGCT ACATGTGACC TCCAGCTTGG 300
TGCGGTTAGN 310
```

(2) INFORMATION FOR SEQ ID NO: 6867:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 285
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08097

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6867:

```
GATCAGTTCA AGAAGGTAAT CCAAGGGCCT GATGACTCTT TTGGTAACCA GACACCAATC 60
AAATAAGGGG AGGAGATGAA AATGGAATNA TTTCTTCCAT GCCACCTGTG CCTTTAGGAA 120
CTGCCCAGAA GAAATCCAA GGCTTTAGCC AGGAGCGGAA ACTGACTACC ATGTAATTAT 180
CAAAGTAAAA TTGGGCATTC CATGCTATTT TTAATACCTG GNTTGCTGAT TTTNCAAGAC 240
AAAATACTTG GGGTTTTCCA ATAAAGATTG TTGTAATATT GNAAA 285
```

## (2) INFORMATION FOR SEQ ID NO: 6868:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 201
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08098

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6868:

```
GATCAGACTC TGTATCAAAA GTACCTTTGC CCTTAGGAAG AGTGAGTATT GGAGTCATCT 60
TATCTATTAC TCCAAACCTC CCTTTTNATT TCTTGAGCCT GGCTTGGACC TTGGCATTCC 120
GTTTGANTTC CTTCTAACTG GAACATTTGT GTTGTATCTG TAACACTGGC ACTGAAATAA 180
AGACCACACG GTTAAAGNAA A 201
```

## (2) INFORMATION FOR SEQ ID NO: 6869:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 50
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08099

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6869:

```
GATCATGTGC TGCCTTTTAC TGCTGAATTA AAACAGATAT TTCACGNAAA 50
```

## (2) INFORMATION FOR SEQ ID NO: 6870:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 43
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08100

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6870:

```
GATCTTCAGT GTAAATNACC ATGTATAAAC TGTAAGTGC AAA 43
```

## (2) INFORMATION FOR SEQ ID NO: 6871:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 247
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08101

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6871:

```
GATCATTTAA TATATTCATA TTACCAAGAC TATTATACTG GAAGTGGTTT TTGTGTTATA 60
```

AAGGTTTAAAT TTTACATANG GCAGTTACTT AATGTGATTT TNAACCCTTA AAAAAGTGGA 120  
 GATGTATACA TTTGTAAACA ATGCCATGAA AGCATTTNCT TTCTCCTAAG GAAAAGTGAA 180  
 TTTCTTATCA GAATATCTGG CTGGCCCTGT AATTTAAATT AAAATAAANT TTTGGCGNAN 240  
 CAGCAA 247

(2) INFORMATION FOR SEQ ID NO: 6872:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 288
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08102

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6872:

GATCTATCTG AGAACAAAGA AGTCGACAGA ATAACATTGA TGACTTTTTA AATAATTAAT 60  
 TTATTTGAAG AATGCTTGCA TACAAAAGC TTCCTGCAGG AATTTTAAAC AAGCTGTCCT 120  
 TGGTTATCCC AGGCAATGTC AGTTGATTTA NTTAAGTTTA CATGCAAAAG NGAATACAAT 180  
 TGTAACATTA ATTGGAACAT TAAGTTGGCT TATAAGCAGT ATTTCCACTG CTCCTACAAT 240  
 TGNTTTNNGT TATTTGATAN TTNATTTNAN ATTNGTNTTT GGTGTGGN 288

(2) INFORMATION FOR SEQ ID NO: 6873:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 294
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08103

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6873:

GATCGTACCT ATTGCACTCC ATCCTGGATG AAAGAGCCAG ACTCTGTCTC AAAACAAACA 60  
 AAAAAGCGTG GGGACTTCTG GGGACAGACA AGGTGCCTGT AATATATTTN CTCAGTCTTT 120  
 GCCCTGAATG GTCTCAGCTT GANACCATNT CAACTGGAG AGAAGCAAGC CAGCCAATAG 180  
 AATGGGGTGA TTTACAGGGA TTTCTGTTTA CTGTCAAAT ATTTCTCATC TGCACTATGT 240  
 TTCCATTTGT GGTCTGAAG GAAATTCTTA TAACTCAACA TTTGTCTGGT CTTN 294

(2) INFORMATION FOR SEQ ID NO: 6874:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 295
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08104

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6874:

GATCCGACAC TCCAGGCAGA GCAGAGGGCA GGAGAGGCC AAAGAGCTAG GTCAAGCAGC 60  
 TGGCTCCCCT GGAAGGGGAG CCGGGAGACA GGGAGGTCCT CACTGCCC CCGTGGCCAC 120  
 GCATGGCTGT CTGCACACTC CATCAGGAGG AAGGGCAGG GAGAAGTCAC ATGCNGTACA 180  
 GTGAAACTNA TCAGTGTAC ACACGCCAG CAGGAGGGGA GAGCTCTGCT CCACACGCTG 240

CGGGCCTTGG CTGCTCCANA GCAATCCGNT TGCTCCANCT TCAAGCCATT GGGGN 295

(2) INFORMATION FOR SEQ ID NO: 6875:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 168
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08105

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6875:

GATCCTGTAT TATCCATCTA CATCAGAACC AAACACTTTC TCCAACACCC GGCAGCACTT 60  
GGCCCTGCAA GCTTAGGATG AGAACCACCTT AGTGTCCCAT TCTACTCCTC TCATTCCCTC 120  
TTATCCATCT GCAGGTGAAT CTTCAATAAA ATGCTTTTGT CATTCAAA 168

(2) INFORMATION FOR SEQ ID NO: 6876:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 141
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08107

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6876:

GATCCTTGAG ATGACTGTAG CCCTGGCTGA CAACTTNATT GCTGCCTGTN AAGGACCCTG 60  
AACCAGAGGA CTCAGCGAAA TTGTGCCAG ATTCTTGACC TACAGCGGCA GTGAGATAAT 120  
AAATGCTGTT GAGGTCACAA A 141

(2) INFORMATION FOR SEQ ID NO: 6877:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 124
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08108

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6877:

GATCTGCTCA CCCTCGGTNC ACANCAGTGT CAGCCATGCA AGCAGGACAG AATGGTGACT 60  
GGGTGCCCAT NGTGAGCTGT GTATTTCCCTA GGAGGTAGAA AACAATAAAA AATTGCATGC 120  
TAAA 124

(2) INFORMATION FOR SEQ ID NO: 6878:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 280
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08109  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6878:  
 GATCCTCCTG CCTCAGCCTC CTGGGTGGCT GGGACTGCAG ATACATGCCA CCATGCCGGA 60  
 CAAATTTNTT GTATTTTNAG TAGAGATGGG GTTTTACCAT ATTGCTCGGA TTGGTCATGA 120  
 ACTCCTGGAT TCAAGCAATC TGCCCACCTA GCCTCCCTAA GTGCCTGGCC AAATTTTGG 180  
 TTTTAATAGT CGATTTGTGT ATATTTTTTG GTAGTATCTA CATATATTTA ATACATTTAT 240  
 NTGTTGNTGN AAAAAGTANA ATTTGTAAAA NNTTTGNAAA 280

(2) INFORMATION FOR SEQ ID NO: 6879:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 198  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08110  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6879:  
 GATCATTGTT GAACTTCAGC TCCAGTGTCT CTCCAGAATA AGACATTGGC ATTCAAATGT 60  
 CTATATCTTG TTA CTACAA AATAAAAAAC AGATTAAATTA GTGGCTTTTA AATTGTAGTT 120  
 ATATCNGTGT ATATACACGC GGGGNACTGT ATAAAGACAT ACTAAAGGGC ACAGATTAAA 180  
 ATAAGTATTA TTANTAAA 198

(2) INFORMATION FOR SEQ ID NO: 6880:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 66  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08111  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6880:  
 GATCAAAGTT GTTAAAATTA TAAATNTATG ATGCAGNAAT AAAATTGATA TATTTTGATA 60  
 TTCAA 66

(2) INFORMATION FOR SEQ ID NO: 6881:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 100  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08112  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6881:  
 GATCTCTTAC CTTTGAAAA TAGGGGTTAG GCATGAAGGT GGTGTGATT AAGAAGATGG 60  
 TTTTGTATT AAATAGCATT AANCTGGAAT TGACAAGAAA 100

## (2) INFORMATION FOR SEQ ID NO: 6882:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 30
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08113

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6882:

GATCAAAGAA ATAATTCTTT TGCCACTAAA

30

## (2) INFORMATION FOR SEQ ID NO: 6883:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 172
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08114

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6883:

GATCACTACA ACAATTTGNC TGCCTCCAAG GTCCTCTGAG GCAGAAGGCT CTGGGGNTTC 60  
 TGCTGTCCTT TGGNGGGTGT CTTCTGGGTA GAGGGATGGG AAGGAAGGGA CCCTCACCCC 120  
 NGGCNCTTCT TCTGACCCTG CCACTAAAAA ATTTATGGNC CAAGGGCNCA AA 172

## (2) INFORMATION FOR SEQ ID NO: 6884:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 291
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08115

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6884:

GATCAGCAAT NAGGGTGAGG ACAAATCTT CTTAATCAAC AAGCTTCACT CCATCTACGA 60  
 GAGGAAGGAG AGGGAGGAGA GGAGCAGGGT TGGGACAACC GAGGAGGCTG CGGCACCCCC 120  
 TGCCCTGCTC ACAGATGAAC AGGATGCCTA GGGGGACGGC GATGGGCCTC ACGGGCCCCG 180  
 CCAGCACCTT GAGACCACAC TGTTCCTCC CAGTGACCCT GCTGGGACAC CAGGACAAGG 240  
 AAGACAGTTT CGCCTCTNGA AAGCCGCAGC TGCGCCTAGG CTGGAGCTGG N 291

## (2) INFORMATION FOR SEQ ID NO: 6885:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 30
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08116

## (ix) FEATURE:



(D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6885:  
 GATCTGTAA TAAACTTAC ATTTTTCAAA

30

## (2) INFORMATION FOR SEQ ID NO: 6886:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 291  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08117

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6886:

GATCTGCCTG CCTCGGNCTC CCAAGTGCTG GGATTACAGG CGNGAGCACG TGCACCCAGC 60  
 CTAGAATCTT GTATAATATG TAATTGTAGG GAACTGCTC TCATAGGAAA GTTTTCTGCT 120  
 TTTTAAATAC AAAAATACAN AAAAATACAT AAANTCTGAT GATGAATATA AAAAAGTANC 180  
 CAACCTCATT GGNACAAGTA TTAACATTTT GGAATATGTT TTATTAGTTT TGTGATGTAC 240  
 TGTTTTACAA TTTTNACCAT TTTTTCAGT AATTACTGTA AANNGNNNNN N 291

## (2) INFORMATION FOR SEQ ID NO: 6887:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 288  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08118

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6887:

GATCCCAAGC TCAGTCCCA CAAAGTTCAG GGCCGGTCGG AGGCAGGGGC AGGTCCGGGT 60  
 CCAAAGCAAG GACACCACAG CTCTCCGAC TCCAGCAGCA GCTCCAGCGA TTCGACACG 120  
 GATGTGAAGT CCCACGCTGC TGGCTCCAAG CAGCAGAGA GCATCCCGGG CAAGGCCAAG 180  
 AAGCCCAAG TGAAGAAGGA GAAGGGCAAG ANGGNGAAGG GCAAGANGAN GGAGGCTCCC 240  
 CACTGANGGG CCCTGGACAG GGCTCATTAA ACCTTCCTCT CTGCCAAA 288

## (2) INFORMATION FOR SEQ ID NO: 6888:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 308  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08119

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6888:

GATCCGCATT GAAGACCCAC CCCGCAGAAA GCACATGGAA TTCCTGGGTG GTGCAGTTCT 60  
 AGCGNTTATC ATGAAAGNCA AAGACAACCT TTGGATGACC CGACAAGAGT ACCAAGAAAA 120  
 GGGTGTCCGT GTGCTAGAGA AACTTGGTGT GACTGTTCGA TAAACTCCAA AGCTTGTTCC 180  
 CATCATACCC GTAATGCTTT CTTTTTCTT TTATTGCCAA TCTTTGAACT CATTCAACTC 240  
 CAGGACATGG AAGAGGCCTC TNTCTGCCCT TTGACTGGAA NGGTCAANGT TTTATTCTGG 300

TTGTCTGN

308

## (2) INFORMATION FOR SEQ ID NO: 6889:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 308
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08120

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6889:

```

GATCATGTCT TTTGCAGGAA CATGAATGGA GCTGGAGGCT ATTATCCTTA GCAAACATAAT 60
GCAGGAACAG AAAACCAAAT ACTGCACGTN CTCACCTTATA AGAGGGAGCT AAATNATGAG 120
AACTGATGAA CACAAAGAAG GAAACAACAC ACAATGGGGT CTACTTGACA GTGGAAGGTG 180
GGAGGAGGGN GAGGAGCAGA AAACATAACT ATTGGATACT GGGCTTAGTA TCTGGGTGAT 240
GAAATAATCT GTACAACAAA CCCCATGNC ACAAGTTCAC CAATGTAACA NACCTTCACA 300
TGTACCCN 308

```

## (2) INFORMATION FOR SEQ ID NO: 6890:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 224
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08121

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6890:

```

GATCAATTCC CTTGAATAGG GAAGTAACAT TTGCCTTAAA TTTTTCGAC CTCGTCTTTC 60
TCCATATTGT CCTGCTCCCC TGTTTGACGA CAGTGCATTT GCCTTGTNAC CTGTGAGCTG 120
GAGAGAACCC AGATGTTGTT TATTGAATCT ACAACTCTGA AAGAGAAATC AATGAAGCAA 180
GTACAATGTT AACCTAAAT TAATAAAGA GTTAACATCC CAAA 224

```

## (2) INFORMATION FOR SEQ ID NO: 6891:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 28
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08122

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6891:

```

GATCAAATAA AGTTATAAAA TTGCCAAA

```

28

## (2) INFORMATION FOR SEQ ID NO: 6892:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 140
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single

- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS08123
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6892:  
 GATCAGGCCT GGCCACTCCT CTTTGGAGGG CGGTTGAGGC CCACCTGCCT TGGGCTTCCC 60  
 AATNCTGATT CCNNTACTAC ACCCTTCCCA GTTCTATTCC CCTCACCACA CTGCTCCAA 120  
 TAAAACTATT TATATACAAA 140

(2) INFORMATION FOR SEQ ID NO: 6893:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 163
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS08124
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6893:  
 GATCGTCATC CCTTCCTGGA GTTCCTATCT TCCAAGATGT GACTGTCTGG AGTCCTTGA 60  
 CTAGGAAGAT GGATGAAAAC AGCAAGCCTG TGGATNGAGA CTACAGGGGA TATGGGAGGC 120  
 AGGGAAGAGG GGTGTGTTTCT TTTAATAAAT CATCATTGTT AAA 163

(2) INFORMATION FOR SEQ ID NO: 6894:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 253
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS08125
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6894:  
 GATCACCTGA GGTGAGGAGT TTGAGACCAG CCTGGCCAAC ATGGTGAAAC GCCATCTCTA 60  
 CTAAAATTGA AAAATTAGCT GGGCATGGTG GCAGGTGCCT GTAATCCCAG CTATTGGGGA 120  
 GGCTGAAGCA GGAGAATCGC TTGAAACAGG AGGCAGAGAT TGCAGTGAGC CGAGNGGGGN 180  
 GCCACTGCAC TCCAGCCTGG GCAACAGGAA CAAAACTCTA TCTCAAAAAA TAAACAAGA 240  
 TTTTCTGCG AAA 253

(2) INFORMATION FOR SEQ ID NO: 6895:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 99
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS08126
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6895:  
 GATCACTTGC AGCCAGNAA GTTTGAGACC ACCCTGACCA ACACAGTGAA ACCCNCTCTC 60

TAAAAAAGTT TGTTTTTAAA GTCTCCTTGA AACATCAAA

99

## (2) INFORMATION FOR SEQ ID NO: 6896:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 286
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08127

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6896:

```
GATCAAGCTA TGCCTGATNC TGCCTTAAGC CTTATNAGGT CGCCACGGAA CCGCAGAAAC 60
TCCTGGTGGG CAGAGCTGTG TGTGCCATCT TCATCATTGC ATTACCACCA CCAAGCACAG 120
TGCCTGGCAC AAAAGAGTTG CTCAATAAAT AAATCAGGAT GANTGGNTAA ATACATGGNT 180
AGGCACTTTG AGCTACAGAT GCGTTTAAAT ACTTTGTGTT TTTCTTAGTC AAACATGTGC 240
ANTTANGCAT GTGATAAATG CTATGATGAC CACAANANTG CACAAA 286
```

## (2) INFORMATION FOR SEQ ID NO: 6897:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 137
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08128

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6897:

```
GATCATGGTG AAATATTTTN GATATATAAA TTCCTTAAGC TATTGTAACC ATGTTTTATT 60
GCAAAGATGT AAAATATGCC AGATGTGTGT NAGTTGGAAG TCAAAAAAAG NAAAATAAAN 120
TATGCAAAGA NTTCAAA 137
```

## (2) INFORMATION FOR SEQ ID NO: 6898:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 290
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08129

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6898:

```
GATCCGCAAC AACTCAGCCA TCCACATCCG AGTCTTCAGG GTCACACCCA AGTAATTGAA 60
AAGACACTCC TCCACTTATC CGNTCCGTGA TATGGCTCTT CGCATGCTGA GTACTGGACC 120
TCGGACCAGA GCCATGTAAG AAAAGGCCTG TTCCCTGGAA GCCCAAAGNA CTCTGAATTG 180
AGGGTGGGGG TAATTGTNTG TTGGTNGGCC CAGTTAGTGG GCTTTNNTAA GTGTGTGTAT 240
GCGGTCTGTA NCTATTGCCA TATAAATAAA NAATCCTGTT GNACTNGTAN 290
```

## (2) INFORMATION FOR SEQ ID NO: 6899:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 71

- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS08130
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6899:

GATCATAAAA CGTTGTAAGT TTTCTAAAC ACATAAGCTC TCAATAAACG TTAGCTTATC 60  
ATTGTCACAA A 71

(2) INFORMATION FOR SEQ ID NO: 6900:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 211
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08131

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6900:

GATCAAACAC TGTCAGAATT GCTGAAATCA ATACACAAAG AGATAAAGTT TAGCTTCTTT 60  
TTACTATTCA ATATTGAACA TAATATTGTT AAATATNGNG ATGAAATGCT GTTGGATNTG 120  
CTNCATTAAA TCTTAATGTA ATATTGTAAG NCTTTTGAGA ATATACTTGA TTAAATGTG 180  
AAAGNNGGN TTGTTANCTT ATTGCTATNC N 211

(2) INFORMATION FOR SEQ ID NO: 6901:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 81
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08132

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6901:

GATCATCATC TNCTTGCGGA CTTCTCTGCC TGGTCTTGTG TGTTCTGTTA TTCAAACAAT 60  
AAAANGCTGG TNGAACTTAA A 81

(2) INFORMATION FOR SEQ ID NO: 6902:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 175
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08133

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6902:

GATCAGACAC TGCCTTTTGT GTGTTTGCTG CCTNTGGATN CTTTTTTAAA AAGACTGTTA 60  
CATATTAAAA NAGTGTACAT ATATAATAT NACCTCTTTT GCTGTACAGT TGTGATAGAG 120

ACTGAAGNTT TTATTTTNG TGTGCTTTT ATAAGNAAA ANTAAATACA CTAAN 175

(2) INFORMATION FOR SEQ ID NO: 6903:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 92
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08134

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6903:

GATCATCTAA TTCTCTGTGG AATAAATACA CACATATATA TTACAAGGGA TAATTTAGAC 60  
 CCCATACAAG TTTATAAAGA GTCATTGTGA AA 92

(2) INFORMATION FOR SEQ ID NO: 6904:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 312
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08135

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6904:

GATCTGGAAA ATACTGGAAA ATGTGATACT TAGAATACTT TGGCTGCTAA GGAAACTTCC 60  
 TCTCCATTGC AGAATAGCTG AGCCAAGTNA GTGAGTTTNC AGAAAGCAGG TGGTGAGCTC 120  
 NTGCCTGCTG GAGGTTGCCA TGGAGGGCCA TTCCTGCCCG GCAACAGCAC CGTCCTGCAG 180  
 GGAGCCACTT GGCAGAAGGG TGCAGGGCTG CTGGTGTCAG AGCAAGAGGG CTACAGGGAA 240  
 AGGGCCCTTT CTCAGGGGAT GTNGNTTTTT TAAAAGGTTT GGNACACTT GGCGGGTTTG 300  
 CTAAAATTGA GN 312

(2) INFORMATION FOR SEQ ID NO: 6905:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 123
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08136

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6905:

GATCTCTCTT GCAGCTTGAG AATGTCCAG TTAAGCCACT TAAAAANTCC TCTNTCCTGC 60  
 AGCCCAACAC TTTNCTAAGA GGTACAGAAA NGANAGGAAA TAAACACAC ATCATTATGG 120  
 AAA 123

(2) INFORMATION FOR SEQ ID NO: 6906:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 212
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single

- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS08137
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6906:

```

GATCTCAACA CAGACCTTNA CCAGCTGATN AATNCAGTNA ACACACTGGA CAGGGATGTC 60
CTCAACCAGC TACACGTACA GCTCATGGAG CTGAGGAGCT GCAAGGNTTA CAAGCAGTGT 120
AACCCCCGGA CTCGAAACAT GGACCTGGGG ACTTAAAGAT GGAGGAAGCT ATGAGCAATA 180
CAGGCAGTTT CAGCGTCGAA AGTGGCCAGA AN 212

```

(2) INFORMATION FOR SEQ ID NO: 6907:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 235
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS08138
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6907:

```

GATCAAGCCA AAAGAAATAT TTTTNAATA AGCCCTTTTC AAAAGTTTTT GAATTTATAG 60
AAAGCACCAA TGAATAACAT ATTTCTGTTT CGTTAATGTC AGCTGCCTGA ACATTCAGCA 120
GTTTATAAAT TGCTTAATTT GTGTNATCTA TTATCCAGTA AACCCATAGT TCCATGATAT 180
GTCACAGGNA TTGTNAGGTC CTATTTTAA GGTACAGTCT TGTGGNATGT CATCN 235

```

(2) INFORMATION FOR SEQ ID NO: 6908:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 224
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS08139
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6908:

```

GATCCTTTGA GCCCAGAAGT TGGAGACCAG CCTGGACAAC ATGACAAAAC CCCATCTCTA 60
CAGAAAATTT AAAAATTGGC CAGGCGTGGT CGCGCACGCT GTAGTCCCAG CTATTCAAAA 120
GGCTGAGGTG GGAGGATTAT GTCCCTGGAG CCCAGGAAGT GGNGGTTGCA GNGATTGCAT 180
CACTGCATTT NAGCCTGGGT GACAGNGTAC GCCNCTGTAT CAAA 224

```

(2) INFORMATION FOR SEQ ID NO: 6909:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 215
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS08140
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6909:

GATCCTGCTG GCCAGAAGCA AGCGGGNNCG GCAATAAATC CAAGAAATTG TCCCAACAAC 60  
 CACCAATTCT TACGGAGGAN TATTATTTAG CCAGCAGGAG TCGNGTTTGG TTTACTGCTT 120  
 TTACTGTTTT GNGTTCATGN CTNTTTATTT TAATGGCGTT AAAAGCACAG GCAAATGTCT 180  
 TTGGTAATGC AGCTTAGTAT GANTTCTNTT ANAGN 215

(2) INFORMATION FOR SEQ ID NO: 6910:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 253
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08141

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6910:

GATCACAGAC TCTGAAGNCA GACTGGCAAG ATTCAAATCC CGACTGCCAT TTTTAACTGA 60  
 AAGACCTTAG GTAAGTTACC TAACCTCTCT GTACCTGTGT AAAATGGNGA TAACAGTAGT 120  
 ATCCAATTCA CAGAGTTATG AGGNTGAAAT ACATTCATAT TTATAAAACG TTTGGACCCA 180  
 GTACTTGGCA CATAGTAAGG CCATGTAAAGT GTTTGTAAAA TAAACTGNA AATAAAGCCA 240  
 TNTCCNAATN AAA 253

(2) INFORMATION FOR SEQ ID NO: 6911:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 359
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08142

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6911:

GATCACACTG CTGCAAGACC TGACCAGTTG AGCTTCCGGC GTGGGGAAGT GCTGCGTGTC 60  
 ATNACCACAN TGGATGAGGA CTGGCTCCGC TGTGGGCGGG ATGGCATGGA GGGTCTNGTG 120  
 CCTGTGGGGT ATACCNACCT TGTTCTGTAG CCCTGGNGNC CTTTCCTGCG TATGTGTCTC 180  
 CTTCTGTCA CCTGGGCATG GAATGGCCAG TGAACACCAT CCCAGAAGCA TTTTCCCTCT 240  
 GCAAAATGAC GTTCTCTCCC ACGTCTGTTT CTGCTAATAT TTAAAATAAA CTTTCCTTCT 300  
 TCCCTCTAT ACCANCTGTA AGGGAAAATN TGCTCTNTT CCAAATATAT AAAAAGGTN 359

(2) INFORMATION FOR SEQ ID NO: 6912:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 49
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08143

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6912:

GATCTTTTAC ATTGCAACA AAATGCTGTA TTGCTTAAAA GGGTTGAAA

49

(2) INFORMATION FOR SEQ ID NO: 6913:



(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 30  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08144  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6913:  
 GATCAGTTAA TAAACATGAG TAGCTTGAAA 30

(2) INFORMATION FOR SEQ ID NO: 6914:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 128  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08145  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6914:  
 GATCTGAACT GTACAAAGTT CTCATAGCAC CNCTGGGAAG AGAAGGACGT AAACAGAACC 60  
 TGACACCAGC TCCTTTTCCT TNTATACATT ATTTAATACC TATTAAATAC AATTATTTTT 120  
 GGAATAAA 128

(2) INFORMATION FOR SEQ ID NO: 6915:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 425  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08146  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6915:  
 GATCTACTTG TAACTTGTTG GCCTTCTTCC CACATCTGCC TCANACTGGG GGGGGCTCAG 60  
 CTCCTCGGGT GATATCTAGC CTGCTTGTTA GCTCTAGCAG GGATAAGGAG AGCTGAGATT 120  
 GGAGGGAATT GTGTTGCTCC TGGAGGGAGC CCAGGCATCA TTAAACAAGC CAGTAGGTCA 180  
 CCTGGCTTCC GNGGGCCAAT TCATCTTTCA GACAATCTTT AGCAGAAATG GACTCAGGGA 240  
 AGAGACTCAC ATGCTTTGGT TAGTATCTGT GTTTCGGTG GGTGTAATAG GGGNTTAGCC 300  
 CCNGAAGGN CTGAGCTAAA CAGTGTTATT ATGGGAAAGG AATGGCATTN CTNGTTTCAA 360  
 CNAGCGCTAN ATGCAACCAT TNCNCTNTTG TTATAGTATC TAAGGGTNNG NNAGTTAAAC 420  
 GGTTN 425

(2) INFORMATION FOR SEQ ID NO: 6916:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 81  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08147  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6916:  
 GATCCACCAC CCAGCTTCAC CCCTCACCCC CAGCGGCTCA CCATGGGGAT GGCAGCAATA 60  
 AAATACTTCT AATGGAACAA A 81

(2) INFORMATION FOR SEQ ID NO: 6917:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 254  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08148  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6917:  
 GATCAACAAG CTTNCCACG AATTAAAGAG TTTTATCAAG ATATATCGAA TACTTCTACC 60  
 CATCTGTTCA TAGTTTATGG ACTGATGTTT CAAGNTTGTA TCATTCCCTTT GCATATAATT 120  
 AAACCTGGAA CAACATGCAC TAGNTTTATG TCAGNAATAT CTGTTGGNTT TCCAAAGGNT 180  
 GTTAACAGAT GANGTTTATG TGCAAAAAAG GGTAAGATAT AAATNCAAGG AAGNAAAANN 240  
 GTTGNTAGCT AAAN 254

(2) INFORMATION FOR SEQ ID NO: 6918:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 134  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08149  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6918:  
 GATCAGAGGA ACCTTAGAGG CCTGAAATTG TTGCTTCCAG TTTAGCTGCC CCTCAAATTC 60  
 AAGTGAATAT TTTCCCTTCT CCCTTTACCC TTCTCCAGAA ATAAAGCAGG TGACAGGGTT 120  
 TTNAGAATCT TAAA 134

(2) INFORMATION FOR SEQ ID NO: 6919:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 277  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08150  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6919:  
 GATCAAGAGT AATTACCAAC TTAATGTTTT TGCATTGGAC TTTGAGTTAA GNTTATTTTT 60  
 NAAATCCTGA GGACTAGCAT TAATTGACAG CTGACCCAGG TGCTACACAG AAGTGGCTTC 120  
 AGTGAATCTA GGAAGACAGC AGCAGACAGG ATTCCAGGAA CCAGTGTTTG NTGNGGCTAG 180  
 GNCTGAGGAG CAAGCGAGCA AGCAGAGNAA GAAAAGTTAA ATACCAGNTA AGCTTTTGAT 240

TTTTGTATTG TTTGCATCCC CTTGCCCTCA ATAAACN

277

## (2) INFORMATION FOR SEQ ID NO: 6920:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 255
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08151

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6920:

```
GATCTACCAC CAGAGAGTTC AACTGGNGA AAGNCCTCAT GAGTGCAATN AATGTGGAAA 60
ATCCTTTAGC CGAAGCTCCA GCCTCATTCA CCACCGGAGA CTTCACTG GAGAAAGACC 120
CTATGCGTGC AGTAAATGTG GGCAGTCATT TAAGCAAAGC TCCAGCTTCA GTTCACATCG 180
GAAAGTCCAC ACNNGGGANN GGCCTTATGT GTGTGGGGNC TNTGGGNANT CCTTTAGCCA 240
TAGCTCCANC CTTAN 255
```

## (2) INFORMATION FOR SEQ ID NO: 6921:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 273
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08153

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6921:

```
GATCTGGCTT NTCCNGGAGG CTNCCATGGT TGGAAGATGG TATCAGAGGG CCTGCCTGGG 60
CAGTCTGTCT CCGGGCCAGG GTCAGGGACC CTCTGCCTCT GGCAGCCTTA ACCTGTCCCTC 120
TGCTAGGACC AGGGTGATTT CAAGCCAGGG AAGCAACTGG GACCCTGAAA ACTGTCCCTC 180
CCCAGCCCGG TCCNCGTGTA TGTGCCNTGG TCCCCTTGCT GCCATGTGGA TGCTGTTGTN 240
ATTGCTGTTT GTATATTATC AAAATGTTTT TAN 273
```

## (2) INFORMATION FOR SEQ ID NO: 6922:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 83
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08154

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6922:

```
GATCTTCTTT ATAATATTT ATTGTTTCGAA TCACTTTTAG GATGTAAGTT TATAAATAAA 60
CATGAGCGCT GATGATTGTC AAA 83
```

## (2) INFORMATION FOR SEQ ID NO: 6923:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 207
- (B) TYPE: nucleic acid

- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS08155
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6923:

```
GATCCTCATC TCCATCCTCA TCCTCTTCTC TCACAGCATT TACTTGGAGC TCTTTGTGAC 60
ACACCATGTC AGTCATGATG AATCGGCCAA CAGCCAGCCC TTGCCAGCTG ACGTCACAGT 120
CTAAGATGGG AAAGTGTGGT ACAGATAGAC ATGAAGAGAG CTTAGCAGTG ATTGAGGTGG 180
TGACTAAATA TACAGTCATT GAATAAA 207
```

(2) INFORMATION FOR SEQ ID NO: 6924:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 199
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS08156
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6924:

```
GATCACTGTG GGCTGGAGAG GAGAAGGAAA GGGTCTGCGC CANNCTGTCC GTCTTCACCC 60
ATANCAAAGC ATACTAGAGC AAAAAACCAG TTGTAATATA AAATGCACTG CCCTACTGTT 120
GGTATGACTA CCGTTACCTA CTNTTGTCTAT TGTTATTACA GCTATGGCCA CTATTATTAA 180
AGAGCTGTGT AACATCAAA 199
```

(2) INFORMATION FOR SEQ ID NO: 6925:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 358
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS08157
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6925:

```
GATCATGCAG CAGAAGCAGA AAAAGGCCAA CNAGAAGAAG GAGGAACCCA AGTAGCTTTG 60
TGGCTTCGTG TCCAACCCTC TTNCCCTTCG CCTGTNTGCC TGGAGCCAGT CCCACCACGC 120
TCGCNTTTC TCCTGTAGTG CTCACAGGTC CCAGCACCGA TGGCATTCCC TTTNCCCTGA 180
GTCTGCAGCG GGTCCCTTTT GTNCTTCCTT CCCCTCAGGT AGCCTCTCTC CCCCTGGGCC 240
ACTCCCGGGG GTGAGGGGGT TACCNTTCC CAGTGTTTTT AATTCCTGTG GGGCTCACCC 300
CAAAGTATTA AAAGTAGCTT TGTAATTCCA AAAAAAANGG NNNNNAGGGN GGGGGGGN 358
```

(2) INFORMATION FOR SEQ ID NO: 6926:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 62
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS08158

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6926:  
 GATCTGTACA TTTTACTATC TGTAATATAT TCTTCAAAGA ATAAAATAAA AAAAAAAGCA 60  
 AA 62

(2) INFORMATION FOR SEQ ID NO: 6927:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 51  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08159  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6927:  
 GATCAGATAC AGCATTAAC GTTCTCAGT CTCCTNTCC TCATCTGTAA A 51

(2) INFORMATION FOR SEQ ID NO: 6928:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 259  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08160  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6928:  
 GATCTTGCTA AAGTTAAAAT AAGGAACATT TCACCTTTTA AATATTTAAT TCTNATGTGG 60  
 ACTTATTTCC AGAAAACCTT GGTGATAATT CTTGAGACAA AAGGTGGTTA AGTAGCATTA 120  
 TTATGTAATG CTTATATACC ATAGAGTTTT TAATAGANGA GAAATCCATT TCCTCCGAGG 180  
 GTCACATTA ACAATGTACT TCCTTAAATT TNGTTTAATG ATTGTGATGG GTGCTGCATT 240  
 TGCACATTGC ATTANGGAN 259

(2) INFORMATION FOR SEQ ID NO: 6929:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 226  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08161  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6929:  
 GATCGGATGC TGAATAAAAC TCACCGTGAA GCAAGTCCCA CTGAACGAAA AGTTGGTCGT 60  
 AGCATTNTC AGCAGCTGCT TCCGGCTCCC TGAGACCCAG CCATGGAAGG CATAGAAAGG 120  
 CATGTGACAA GAAACTCATG GCTTTTAATC CTGGCAGGNC AAGGAAAACC CCGTCAAAGN 180  
 TTTGCATAAN TTTTGCTGCT CTCCTGCTGG GGGGGGNNNG NNNNNN 226

(2) INFORMATION FOR SEQ ID NO: 6930:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 219  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08162  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6930:  
 GATCGTTCTT GATTTTGTTC TCATTAGTGT CATTTCCTTG TCATTGAGGA CTTTCCCCCT 60  
 TACAACAGTA ACACCATTTT TTGAAGAGCA AACTTATAA TACCTCCTGG GATTGTNAGC 120  
 TAGTCATTCA GCCTGTGTAA CCATGTGGAA ATAAAAATTG ACGACCAATG TATTATATGG 180  
 ACAACTTTTG CTTTGAGTAA TAACTTGAT TGTAGGAAA 219

(2) INFORMATION FOR SEQ ID NO: 6931:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 111  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08163  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6931:  
 GATCCACCC ATTCTTTCAC TTAAAGAAAA AACAAATAAT TGTTGCAGAG GTGTCTGTAT 60  
 TTTGCAGCTG CCCTTTTGTA AGANGCACTT TTCCCAAATA AAACAATTAA A 111

(2) INFORMATION FOR SEQ ID NO: 6932:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 109  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08164  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6932:  
 GATCATTGTA AATNTCTGGG AGTCTGAGGN GTACTGACAT AATNACCTGC TGGAGTCTGT 60  
 AAATACACAT TTAAGACAGT GAGGATGTGA ATAAATATAT TAATGCAAA 109

(2) INFORMATION FOR SEQ ID NO: 6933:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 111  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08165  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6933:  
 GATCAAATAG AGCCCTGTCC AGGTAGAAAA GAAATGGTAT GTAGAGCTTA GATGTCCCTA 60

TTGTGACAGA GCCATGGTGT GTTTGTNNTA ATAAANCCAA AGAAACATAA A

111

(2) INFORMATION FOR SEQ ID NO: 6934:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 243
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08166

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6934:

GATCCCAGCT GTTCTAGGCA GGGCCAGGCA GAGTGGGGCG CAGGCCCTNG AAGGGCGAGA 60  
 CCCAGTGGCT GGGCTGCCCA GGGCTGAGGG GCCGCTCTT GAGGGTACAC GCCTCTGGTC 120  
 ACATGGCCAT GGAGCCTTGG GTACCCCTGA GTTAAGGGAG GACATTTGGC CAGCTGGTGG 180  
 CTGGGAGGGG AGCCTGGCTG CCCTGCTGCT TCTCCTGCCT AATAAACAGG CTTCTCCTGC 240  
 AAA 243

(2) INFORMATION FOR SEQ ID NO: 6935:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 124
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08167

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6935:

GATCTATTTT NATAGGTTCT TTTTCAGAAG TAAAATTTTG TACATATATA CATGTACATA 60  
 TCTNTTTAGT TTGGGTTTCAT TTCTATAACA TTTTGTAAGA AAATAAAAGT TTGAGCACCT 120  
 GAAA 124

(2) INFORMATION FOR SEQ ID NO: 6936:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 169
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08168

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6936:

GATCAGTTGT ATGTAAATGT ACATTTTTGT NACTTTGGCT GTGCCCCGTTA GAATTTATCT 60  
 TCCATAAAGT ATTTCTCCCA TTGAGTCTAA TGATGTATAC TTTGCCTAGG TCTTTCCAAA 120  
 ATTAAATTTA TGTAATATGTC TATTTTATAT AAAATATGNT TAAAATAAA 169

(2) INFORMATION FOR SEQ ID NO: 6937:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 314
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single

- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS08169
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6937:

```

GATCACATTT AGGAGCAAGC AGGTGAGGGC AGAGGTGCTG GAGTGAACGT CGGCTCTTTG 60
GCTGGTAGCC TTACCCACTG AGGGAGAGGA GCTGAAACAT GAAATGGGGA TGC GTGANCA 120
ATGTCTCCCT TTTGCAGAGC TGTATTGACT TGTTC AAGAA TAACTGATAT GCCTTCACTC 180
AGAAGAAAAG AAATGAATGT GAAAGAAAGC CAAGCATCNN TTTGCACTTA AATCANTTAC 240
CACGGAAGNT ATATTTAGCT TCAACTTTAG TTAAAATTA TGTGAATTAA ATATTTTGAT 300
TTCCCTGGGN NAAA . 314

```

(2) INFORMATION FOR SEQ ID NO: 6938:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 46
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS08170
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6938:
 

```

GATCAAGTGA CTGTTTAATA AATNAGTTGC TTGGGTAGAA TGGAAA 46

```

(2) INFORMATION FOR SEQ ID NO: 6939:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 21
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS08172
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6939:
 

```

GATCTTGCTG AAAACCAGAA A 21

```

(2) INFORMATION FOR SEQ ID NO: 6940:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 85
  - (B) TYPE: nucleic acid
  - (C) STRANDNESS: single
  - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS08173
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6940:
 

```

GATCAACAAT CATCACCTGC CTTTGTAGA AAAGAAAAAC AAAAAAGTA AATAAAAATT 60
TTAAACAGTA AAATAAAGT TTAA 85

```

(2) INFORMATION FOR SEQ ID NO: 6941:



(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 274  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08174  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6941:

```

GATCACTACT GCAGCAGAAT GGTCTATGTN ATTTTCCTTC TTTGGTTTTT NCCTGACTTA 60
CATTCGTAAT TTTAAGAAAA TTTCTTTACG GGTGGAAGCC AATTTACATG GATTAACCCT 120
CTATGACACT GCACCTTGCC CTATTAACAA TGAACGAACA CGGCTACTTT CCAGAGATAT 180
TTNATGAAAG GATAAAATAT TTCTGTAATG ATTATGATTC TCAGGGATTG GGGNAAGGTT 240
CACAGNAGTT GCTTATTCTN CTCTGTAATT TTAN 274

```

(2) INFORMATION FOR SEQ ID NO: 6942:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 246  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08175  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6942:

```

GATCTAAGTT GGGCAAAAGA GAGTCATCCT GTTACCTTAA AAAGGAGTCT AGGGTGAGCC 60
CCAGTCTGCT GGTGGCCATC TTCACCACCT TTGGGGAGAG ATGGCCTCNG CAGACACACA 120
AAGCAAAGAG GTGGAGAGAA ACTGTGTCTT TGTGTCATTG TTTGAGTCCC TGGACCCAGC 180
CCAGTCCCCC CGACTACGCT GANCTTTTCA ATTGTGGGGG GCAATAAATT CCATTTAGTT 240
ANGAAA 246

```

(2) INFORMATION FOR SEQ ID NO: 6943:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 215  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08176  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6943:

```

GATCCACATN ATACCGGTGC TGAAGACCTG CAAGTNATTT TGGAAAAGGG CTGGTGCGGA 60
TGGAAGGGCC CAGATTTTTG GAACAAGGAT GCATACTATA ACTTATGTCT TCCTCAGCGA 120
CCAAATATGA TTAAAATAT CTTGGAGTCA AAGACTGCAG TAGAGTGGTA TTATAAATTT 180
NTGAATAAAG AATCAGTTTA NTTTTTCACA TTAA 215

```

(2) INFORMATION FOR SEQ ID NO: 6944:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 171  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single

(D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08177  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6944:  
 GATCTGGACA CGAGCAGTCC CTGAGGGGCG GGGTCCCTGG CGTGAGGCCC CCGTNACAGC 60  
 CCACCCTGGG GTGGGTATTG TGGGCACTGC TGCTCTGCTA GGGAGAAGCC TGTGTGGGGC 120  
 ACACCTCTTC AAGGGAGCGT GAACTTTATA AATAAATCAG TTCTGTTTAA A 171

(2) INFORMATION FOR SEQ ID NO: 6945:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 161  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08178  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6945:  
 GATCGGCCCC GGAAAAAGTC TGCCCCAGAA ACTCTCACAC TTCCAGACCC TGAGAAAAAA 60  
 GCCACCCTGA ATTTACCCGG CATGCACTCT TCAGATAAGC CATGTCGGCC CAAATCTGAG 120  
 TAACCTTTATA TAANTATCTC ATGGGGTTTT ATATTTTCAA A 161

(2) INFORMATION FOR SEQ ID NO: 6946:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 251  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08179  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6946:  
 GATCCTTGGG GAAGGTTTCA GTTGCACTGT ATGCTGTTGG ATTTGCCAAG TCTTTGTATA 60  
 ACATAATCAT GTTTCCAAAG CACTTCTGGT GACACTTGTC ATCCAGTGTT AGTTTGCAGG 120  
 TAATTTGCTT TCTGAGATAG AATATCTGGC AGAAGTGTGA AACTGTATTG CATGCTGCGG 180  
 CCTGTGCAAG GAACACTTCC ACATGTGAGT TTTACACAAC AACAAATGAA AATAAATTTT 240  
 AATTTTATAA A 251

(2) INFORMATION FOR SEQ ID NO: 6947:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 277  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08180  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6947:  
 GATCCCTCTT GGTGTGAGTT TTCTGACCCA ACCAGCCTCT GGTTAGCATC ATTTGTACAT 60

TTAAACCTGT AAATAGTTGT TACAAAGCAA AGAGATTATT TATTTCCATC CAAAGCTCTT 120  
 TTGAACACCC CCCNCACCTT ANTCNTNGT TCAGGCCGAT GNGCTTGCTT TCCTTCANCC 180  
 TGTTTGTTTT CTTATTTAGG NCTATTTATT ANTGGTTGGN CCAATGTACT CACAGCTGTT 240  
 GCGTCGAGCA GTCCTTNGTG AAANTNCTGT ATAANTN 277

(2) INFORMATION FOR SEQ ID NO: 6948:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 130
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08181

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6948:

GATCCAGCTT CAGCTGCACA CCTNTGTCCC CTGGGATGGG GNACTAAGGG NAAACGTCTG 60  
 TTGTATCACT GAAGTTTTTT GTTTTGTTTC NATACGTGTC TGCATAAAAA TGCCAAAGTT 120  
 TTTTTTCAAA 130

(2) INFORMATION FOR SEQ ID NO: 6949:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 101
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08182

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6949:

GATCACCAAT NNTNCTTTG AGCCAGCCAA CCAGATGGNG AAATATGACC CTCGCCATGG 60  
 TAAATACATG GCTTGCTGCC TGTAATACCG TGGTGACGTG N 101

(2) INFORMATION FOR SEQ ID NO: 6950:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 304
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08184

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6950:

GATCATGAAG ACCTGCTTTA GCCCAACAG AGTGATTGGA CTCTCAAGTG ACTTGCAGCA 60  
 AGTAGGAGGG GCATCAGCTC GCATCCAGGA TGCCCTGAGT ACAGTGTTGC AATATGCAGA 120  
 GGATGTACTG TCTGGAAAGG TGTCAGCTGA CAATACTGTG GGCCGCTTCC TGATGAGCCT 180  
 GGTAAACCAA GTACCGAAAA TAGTTCCCGA TGACTTTNAG ACCATGCTCA ACAGCAACAT 240  
 CAATGACCTT TTGATGGTGA CCTACCTGGC CAACCTCACA CAGTCACAGA TTGCACTCAA 300  
 TGAN 304

(2) INFORMATION FOR SEQ ID NO: 6951:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 268  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08185  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6951:  
 GATCCTATCT GTNCTGGCAG GACTGGCAGN CATGGTGGGC TACGCCTTGC TCAGNGGCAT 60  
 TGTCTCCATN CAGNGGGCAA CGCTGCTCGG GCCCCAGGCA CCCGGACCCT GGGCATGGCT 120  
 GAGGAGGATG AAGAGGAATN ATTTGTCCTC ACGCTCCCAA GACTGGTTTT TNTACTCTNA 180  
 TGCATTCCAG NGGCCCCCGT GCCTCCTCGT TGTGTTGACA GCCGGACACG GGGTGCTGCC 240  
 ACCCAGAATA AAGCCACTCA CACTGAAA 268

(2) INFORMATION FOR SEQ ID NO: 6952:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 152  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08186  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6952:  
 GATCCCACCG AAGCAGCGTG TCCTCCGTGG GAGCCCAGAG TGGGTCCCAC CCGCATCTCC 60  
 TCTTCCACAC CCTCCTGGGA CCCCAGCCCT GGAGAAGTAG CTCTGGCTTG TTTTCTTTTT 120  
 NATTAAGAT AATTTATGTA TCGACTAAGA AA 152

(2) INFORMATION FOR SEQ ID NO: 6953:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 72  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08188  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6953:  
 GATCAGTGGG TCTAAGTNTC CGAGACTTAA CGAAAATAGT ATTCAGCTG CAATAAAGAT 60  
 TGAGTTTGCA AA 72

(2) INFORMATION FOR SEQ ID NO: 6954:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 293  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08189  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6954:

```

GATCAGCATC CTNCGNTGCC CCTTAGCAAC TNAGGTGGTT GATTGAAAC TGTGAAGGTG 60
TGATTTTTTC AGGAGCTGGA AGTCTTAGAA AAGCCTNGTA AATGCCTATA TTGTGGGCTT 120
TTAACGTATT TAAGGGACCA CTTAAGACGA GATTAGATGG GCTCTTCTGG ATTTGTNCCT 180
CATTTGTCAC AGGTGTCTTG TGATTGANAA TCATGAGCGA AGTGAAATTG CNTTGANTTT 240
CAAGGGAATT TAGTATGTNA ATCGTGCCTT NGAAACANGG GGNAAAAAN ATN 293

```

## (2) INFORMATION FOR SEQ ID NO: 6955:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 184
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

```

(B) CLONE: HUMGS08190

```

## (ix) FEATURE:

```

(D) OTHER INFORMATION: "N"=unidentified base

```

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6955:

```

GATCCTTCAA TAAAAAATCA ATGTGTGAAG GTTCCTAGGC ATAAAAGGAA GTTCAGAAGG 60
NTATGTAGGA AATACTGTTG TCTCTCTGGG GATTGGGATT ACAGGGATTT TTTCCTCTTT 120
NCTTTTTGTT AAGTTTGTGT TTCCTAAAGT TTCTGCAATA AACGTACGAT GCTTGTATAA 180
TAAA 184

```

## (2) INFORMATION FOR SEQ ID NO: 6956:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 327
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

```

(B) CLONE: HUMGS08191

```

## (ix) FEATURE:

```

(D) OTHER INFORMATION: "N"=unidentified base

```

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6956:

```

GATCTTGAAT TTCTACATAA CTTTCTCAGT TTATATGCCC TGTGGCAAGT GCAGCAAGCA 60
CTGTTTCCTG TTTCTAAACT TGTAGAAAAT CATCCATACA TCTTACAGTT GTCAGTTTTA 120
ACCAGATAAC AGTGGCACTT TGTTGCTGCT TTTTATCTT TAGCTTAGGT TAACAGGACC 180
CTGGAAGTAA AGTTGTTGAT TTATTCAATA GAGTATTCTC AATTAATTG GCTAGATTTC 240
TACATGATTC AAANTCTAAA AANGTAGACA TGCATGCTTA CATGTCTAAG GCCTGAAAAA 300
TTGGNGGGGN CATCCCAAAA TAAATGN 327

```

## (2) INFORMATION FOR SEQ ID NO: 6957:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 22
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

```

(B) CLONE: HUMGS08192

```

## (ix) FEATURE:

```

(D) OTHER INFORMATION: "N"=unidentified base

```

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6957:

```

GATCTAAGTG GTGGTATGGA AA

```

## (2) INFORMATION FOR SEQ ID NO: 6958:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 223
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08193

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6958:

```
GATCTGTTGA CAATGGAGCA AGTGAAAGAC TTTGCTGCTA ATGTGTATGA AGCTTTTAGT 60
ACCCCTCAGC AACTGGAGAA ATGATTTTCC CTTCAAGAAA AACTACAGTG GGATTCATTT 120
ACTTTTAAAT ATACACTGGG TAAATCACCT AACTTAGAG TAACAGTTTG TTATCAAAAT 180
GCCTGNTAAA ATATATNCTT AATAAANGTC TTCATTTTCAT AAA 223
```

## (2) INFORMATION FOR SEQ ID NO: 6959:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 331
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08194

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6959:

```
GATCTTACTT GCGAAATGCG ATGGTTGCTG GGAATACCTG AAAGTGTGGA TTATATTGCT 60
TGACTTCTAC CTCAGAATCT NCTTTGTTTC ATGACTTAAT AGTGCTTTAA GTNNGGTATA 120
TNATTTNACC NCTAGGAATT CTNTGTTTTA CACAGAAATA AAAATTTTAA AATAGAAAAT 180
GCTTTTACTT TGTAAGGTAA GNGAGTATCC ATATGCTTAG ATGTGCTCGT TTCTAAAATN 240
CTAGNGGTTG CTATANTCAG CTCATGGAAT GCACAGCTAT TGCTTTTTGT GNTAGATTGT 300
ACATAAACAT CAGCAGNTGN AAGGGNAAAT N 331
```

## (2) INFORMATION FOR SEQ ID NO: 6960:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 211
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08195

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6960:

```
GATCACCCAG ATGCAGTGAA GCTTTTNACC CGCCAGCTTT TGGAAGTCCA TCAGGGACAA 60
GGCCTAGATA TTTACTGGAG GGCTAATTAC ACTTGTCCTA CTGAAGAAGA ATATAAAGCT 120
ATGGTGCTGC AGAAAACAGG TGGACTGTTT GGATTAGCAG TAGGTCTCAT GCAGTTGTTC 180
TCTGATTACA AAGAAGNTTT AAAACCGCAA A 211
```

## (2) INFORMATION FOR SEQ ID NO: 6961:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 208
- (B) TYPE: nucleic acid

(C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08196  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6961:  
 GATCATTGTA GATGAACTGA AGCAAGAAGT TATCAGTACC AGCAGCAAGG CAGANCCNCC 60  
 CCAGTGCACC TCCCTGGCCT GGTCTGNTGA TGGCCAGACT CTGTTTGCTG GCTACACGGA 120  
 CAACCTGGTG CGAGTGTGGC AGGTGACCAT TGGCACACGC TCGAAGTTN TGGCAGAGCT 180  
 TTNCAACTAA ANAANAANCT GGCATAAA 208

(2) INFORMATION FOR SEQ ID NO: 6962:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 165  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08197  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6962:  
 GATCCCAGCC CCTAGGTGGG CAGAGGCAGA CCCTCCCCAG AGCTCCTTAG GAAGAAGACA 60  
 GACTGGTTCA TTGAATGCCG CCTTATTTAT TTCTGGTGAG GATGCATGCG TGGGGCTGCT 120  
 GGTGTTTAGA GTGGGGGCTA CCCTTNTAAA TCACTGCTAC TCAAA 165

(2) INFORMATION FOR SEQ ID NO: 6963:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 280  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08198  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6963:  
 GATCACTCTN GGTCAGCTNC TCTTCTTTA TCTNTCTTTC TCCTTTTTTA AGAAAACGAG 60  
 TTAAGTTTAA CAGTTTTGCA TTACAGGCTT GTGATTCATG CTTACTGTAA AGTGGAAGTT 120  
 GANCTTATTT TAAAACTTCA AGCTCAGTAA TTTTGAACAC TGNAACATTC ATCTAGGNCA 180  
 TAATAACAAA GTTCAGTATT GACCATAACT GTTAAAACAA TTTTAAGCTT TCCTCAAGTT 240  
 AGTTNTGTTG TAGGNGTGTA CCTAAGCAGG TAAGCGTANA 280

(2) INFORMATION FOR SEQ ID NO: 6964:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 51  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08199  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6964:  
 GATCCATATA TGTGTGCATG TCATGAAATA AAAGNATCAC ACANCAAAA A 51

(2) INFORMATION FOR SEQ ID NO: 6965:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 155
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08200

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6965:

GATCTTGGAG CTTCCCTGTA GCCCACCTTC CCCGTGCTTC ATGTTTGTAG AGGAACCTTG 60  
 TGCCGCCAG GCCCAGTTTC CTTGTGTGAT AACTAATGT ATTTGCTTTT TTTGGAAATA 120  
 GAGAAAATCA ATAAATTGCT AGTGTTCCTT TGAAA 155

(2) INFORMATION FOR SEQ ID NO: 6966:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 58
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08201

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6966:

GATCCAGCAT TGGGGCCACT AACTCCAGC CTGGACCACG GAGCGAGACT GTCTCAAA 58

(2) INFORMATION FOR SEQ ID NO: 6967:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 111
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08202

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6967:

GATCAGGCTT CAGGATAGCC CAGCACTGAG GACATCTAAA ACAGTCTTCA TTTATTTATT 60  
 TATTGTTTCAT AGTGTCCAAA AGTTGGAATT AAAGTGAATG GCTGAATCAA A 111

(2) INFORMATION FOR SEQ ID NO: 6968:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 39
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08203

(ix) FEATURE:



(D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6968:  
 GATCATGACA AAGAAGATTA AAATTCATT AGCATGAAA

39

## (2) INFORMATION FOR SEQ ID NO: 6969:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 90  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08204

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6969:

GATCAATTGT ACCCCATACC TCAGCATCAT GCAATATAAC CATTAAGAGA CCTGCACATG 60  
 TATTCCTGA ATTTAAAAA AAAGTTGAAA 90

## (2) INFORMATION FOR SEQ ID NO: 6970:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 315  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08205

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6970:

GATCATTGCA GTCTCTGGCT TTTNACTCC AGGCGGGCTC CGTGCCCTCC GGGGCCTCTT 60  
 CTTCTTG TN AGGCCAGTGG GAGCCACAGA GGCCTCATTG GCTTCCTATG AATATNAAAT 120  
 GGGATTCTCT GTGGGGGAAG CTTCCATAAG GCAGGAAGGG GTCCCCGGTT GTTGGCTATN 180  
 AGTGTTATTT NCTTTTAAAT CATCTGTGCT CCTTCAAAGA CGACGTAAGA AGCTTGTGCC 240  
 CTGGCGTTGC AGAAATCTCT GGCTGTAGGG ATTAAACCTA CATGTCTTCC TGATGGGGTG 300  
 GTGAGGACGT AAACN 315

## (2) INFORMATION FOR SEQ ID NO: 6971:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 262  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08206

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6971:

GATCACCTGA GGTGAGGAGT TCACGACCAG CCTGGCCAAC ATGGTGAAAC CCTTCTCTAC 60  
 TGAAAATACA AAAATTAGCC AGGTGTGGTG GCGCATACCT GTAGTCCCAG CTA CTGTTGGGA 120  
 GGCTGNGGCA GGNGAATCAC TTGAAC TCGG GAGGCGAAGG TTGCAGTGAG CCGAGATTTC 180  
 ACCAGTGCAC TCCAGCCTGG GTGACAGAGC AAGACTCCAT CTCAAAAAA ANNTAATTAN 240  
 AAAAAATTGC AGCTGCNGGA AA 262

## (2) INFORMATION FOR SEQ ID NO: 6972:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 118  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08207  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6972:  
 GATCTTGACG GTCTAGTATT TNAATAATGC ACTATTACCC AGGGCAGNTA TTATGAGAAA 60  
 CTGTTTCTNC TCTAAGGGT TATGGCAGAC TTTGCTTTT NAACATGTGA GANATGAN 118

(2) INFORMATION FOR SEQ ID NO: 6973:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 152  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08208  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6973:  
 GATCTGAGTA TTCCCAAGG GCACTCAGCC ACAGGGNTGA ACTAGTGTTT GTTTGTATCC 60  
 TTGCAGTTAT GTGACTTAAA GTGACTCAGA GATATCTATG TATGCNNGTG TACTCCGCTG 120  
 GCAATGAAGT AAATATATCA ATTTGTGGNA AA 152

(2) INFORMATION FOR SEQ ID NO: 6974:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 297  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08209  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6974:  
 GATCCTCCTG CTTTGGCCTC CAAAATGCT GGGNTTATAG GCATGAGCCG CTGCACTTGG 60  
 CCTGNTACTG ATTTTAATNN CTTGCGTTAT CACATAGTGT TGTATTTGAA ACATAGTTCA 120  
 TGGTTTTATC AAAGAACTGA AGNTGAGAAT ACTGGTCATC TAACTTTGTA ATTTGATTTG 180  
 ATTATACTGT AAAGTTTGAC AGTCTCATT TATCACTGCG TTTGTATCTA TNACTAAANT 240  
 GTATTTNTTG ACCTCTTACT GATTCATTGT TGGTNTGTNC AAAGTGTGA CTNGNTN 297

(2) INFORMATION FOR SEQ ID NO: 6975:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 301  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08210  
 (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6975:

```
GATCCTGTCA CCCAGGTAGT GAGTATAGCA CCCAGTGAAA CTGTAGTCTC ATNCCAGGCA 60
CTGTGCTAGC CCACTCTGGG TCATTTAATC CTCTCCTAAG AAGAGAGGAG ACACAGCGTC 120
CCCATTGAC AGATGCAGAA AGAGGTTCCA CAGGTGTGCN TTGATTCTNT CCTAAAACCG 180
TTTCCCGGAA GCTTTTCCTG GTGTGGGCGC TTCTAACCTA ATCCTCAATC GNTTCCAGNA 240
CTATTACTCT GTTCCACAG TGNTACTGTG TCTAGGTTTT ANGGGCGGCA AGTCNATTT 300
N 301
```

(2) INFORMATION FOR SEQ ID NO: 6976:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 264  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08211

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6976:

```
GATCCTTCCG ACTTGGCCTC CCAAAGTGTT GGGATTACAG GCATTAGCTA CCACACCTGN 60
CCAAGGCCCA GGTTCGACA GAAAGGGAGA GAAAACCTGC CAGAGATGCC ATTTCCGAGC 120
CACTCTGCTT GGCAGGGACC TGTGTTCCCC TCATGCAGGT TCATCCTTAG AGGGCTGCGG 180
TCTTATCTGG TTGTGCAAAA GTCCCACAAC CTTTCTGGAT TGATAGTTTG TGGTGAANNT 240
AAACAATTTT AGTTTGTGTTG GAAA 264
```

(2) INFORMATION FOR SEQ ID NO: 6977:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 318  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08212

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6977:

```
GATCAGAACT ACAATTACAA CCAGCATGCG TATCCCACTG CCTATGGTGG GAAGTACTCA 60
GTCAAGACCC CTGCAAAGGG GGGAGTCTCA CTTTCTTCTT CGGCTTCCCG GGTGCAACCT 120
GGCCTGATGN AGTGGGTGAA GTTTTGGTAG GCAATTTCTT GCAACCACCA CCGNGGCCCC 180
GNAAAGCACT GGTTCGTNAGG GAGCTCCTNN CTTGGCCCN CACGCCTGTG CCAGCCCTGG 240
NCCCGNCTGC CACACCTCTG TTTCTTANGG CTGGGGACNC AGATTGTNTC TCCTTNTTTC 300
TTNCACTGC AATGTGCN 318
```

(2) INFORMATION FOR SEQ ID NO: 6978:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 166  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08213

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6978:  
 GATCATNCTG CCCCATNTCC ACGCACCCAA AACCAGCCCT CTCGCTTCTA ACACAGGGCA 60  
 CCTGCTGGGG CTCAGGGATG TTAGGGACGA GTTCCAGNCC TGCCACTNCC CTNGGGCGAC 120  
 CCCTCNCTGT CCCTGCCTCC CTGCTCTGCC GCCCCTNTTN CTGGAN 166

(2) INFORMATION FOR SEQ ID NO: 6979:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 105  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08214

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6979:  
 GATCCGATAC AGATTACATT TCTTGCCAGA GAGTGTGCT GTTGTTCCTT TAGGTAAGTG 60  
 TGTATTGGTG ATTCCATAAT AAAAGCAGTA ACAATAACTA CCAA 105

(2) INFORMATION FOR SEQ ID NO: 6980:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 233  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08215

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6980:  
 GATCAGATAC ATGAACATGT CTTACATGGG TTGCTGTATT TAGAATTATA AACATTTTTC 60  
 ATTATTGGAA AGTGTAAACGN GGACCTTCTG CATACTGTG TAGAACC AAA ACCACCATGA 120  
 CACAGTTTTT ATAGTGTCTG TATATTTGTN ATGCAATGGT CTTGTAAAGG TTTTAAATGN 180  
 AAAC TACCAT TAGCCAGTCT TTCTTACTGA CANTAAATTA TTAATAAANT AAA 233

(2) INFORMATION FOR SEQ ID NO: 6981:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 72  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08216

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6981:  
 GATCTTTC CA GAGGTCCATG GTGGAAGACG ATAACCCTGT GAAATACTTT ATAAATNTC 60  
 TTAATGTTCA AA 72

(2) INFORMATION FOR SEQ ID NO: 6982:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 58  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single

(D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08217  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6982:  
 GATCACCCAT CTGTGTGCTT CCATCCTGCA TTAAATTCA CTCAGTGTGG CCCAGAAA 58

(2) INFORMATION FOR SEQ ID NO: 6983:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 280  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08218  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6983:  
 GATCTCCAAC AGCCAGTGTG TGTTTCCCAT CTCTTGTAGG TTCCATCAAT GGTGAGCACC 60  
 AGCCTGAATG CAGAAGCGCT CCAGTATCTC CAAGGGTACC TTCAGGCAGC CAGTGTGACA 120  
 CTGCTTTAAA CTGCATTTTT CTAATGGGCT AAACCCAGAT GGTTTCCTAG GAAATCACAG 180  
 GCTTCTGAGC ACAGCTGCAT TAAANCAAAG GAAGTTCTCC TTTTGAACCTT GTCACGGATT 240  
 CCATCTTGTA AAGGATATTA AATGTTGCTT TAACCTGAAA 280

(2) INFORMATION FOR SEQ ID NO: 6984:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 311  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08219  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6984:  
 GATCCAGAGA CTCGTGCTGT CTCTTTGTCC CTTTCCTGAT GGTGTTACTT CGATTAACCTA 60  
 CTTCAGCTTG GTGTAAAAAT TGCCAAAGCA GTTGCCCTGCC ACAACTTTGT AAAAGCCAAA 120  
 AAGGAGGTTG AAAATTCACA GGCTGCCCCG AAAAAAGANGA AACTTGCATG GGGGTTTGAA 180  
 GCAAAGNNGN GATGGGAAAC CNAAAGCAAC ATGGGNTACA TGTAACCTGC CAGAGTGCTT 240  
 CAAGACATTT GTAGCCTCAA ATGCTCAAAT TTANTGNGAA TGTTTTCTCTG CCTATGTTCA 300  
 TATGTCAGGT N 311

(2) INFORMATION FOR SEQ ID NO: 6985:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 160  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08220  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6985:

GATCTGATGG TTTTATAAAG GGGNGTTCTG CTGCATACAC TCTGTCTTGC CTGCTGNCAT 60  
 GCAAGATGTG ACTTAGCTCC TCCTTTACCT TCCACCATGN TTGTNAGGCC TCCCCAGCCA 120  
 TGTGGAAC TGAGTTGANT AAACCTCTTT CCTTTATAAA 160

(2) INFORMATION FOR SEQ ID NO: 6986:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 115
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08221

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6986:

GATCAAAAGA TAACTGCTTA TNATAGTAAG ATAACCTTGG AACAGAACTG TGATTAAAAA 60  
 CCTGAATAAT AAAAAACACA CAAGACCCAT TAAAACCTAT TCCTCACTTT TTAAA 115

(2) INFORMATION FOR SEQ ID NO: 6987:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 331
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08222

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6987:

GATCCAGTTG GATATAGTAA CCACTGCCGA CTTNCTGGAT GTGCTAACTC ACACCAAGCC 60  
 CTCCGNAAG AATCTGGCTC AGAGATACTC AGACTGGCAA AGAGAATTCG AGTCTGTCTG 120  
 AAACCACATT TACCCTGACC TGGCCACAAA GGCAACCACA AAGACCTCCT AGTTTATTAN 180  
 NGNNCGTGGG AGAACAAAAT GATTGGAATG GAAAAGAGAA AATTATTTTT GANGACTGGA 240  
 TTAAGTTGAG CCACTGTATT GTTTTGGNTA GCTGAGATAT ATTTNTTAAC TTTACCATTA 300  
 TCGATGTCAG CAAAATATTG AGAGTTTCTT N 331

(2) INFORMATION FOR SEQ ID NO: 6988:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 121
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08223

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6988:

GATCTACTCC CAGTTTTTAA CTTTTNACAG AATATTGTTG CTTTCCTACA ACAATGTACA 60  
 TATATTNCA GTTGATATG CTTTTTTTTT TNCCAAATAA AGTTTGAGTT CTAAACTCAA 120  
 A 121

(2) INFORMATION FOR SEQ ID NO: 6989:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 151

(B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08224

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6989:  
 GATCCTTCCC TGGCTCTCAC CTGCTCCTTT AGGCTGTAAT TGCTTCCTAC ACACGAAGCC 60  
 TCTGATTGGA GCCTCTGGTN CATCTCAGAA AAACCTTCCA AGAGCGCTGG GGTTCATGCT 120  
 TTCTGAATAA AACTACTGT TTACATGGAA A 151

(2) INFORMATION FOR SEQ ID NO: 6990:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 119  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08225

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6990:  
 GATCTCCATA ATTTTAAGAT ACTCTATGTT AAACATTTTT TNAAGTNCTC TTTTACATC 60  
 ACGTCTGAAA TGCACGAGNG TGGCGGTTTC TGTTTCACTG GTTTNNTTGT TCATTTTNN 119

(2) INFORMATION FOR SEQ ID NO: 6991:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 116  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08226

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6991:  
 GATCCCGGGC CGTTATCCAT CTGGAGGCTG CAGGGTCCTT GGGGTAACAG GGACCACAGA 60  
 CCCCTCACCA CTCACAGATT CCTCACACTG GGGAAATAAA GCCATTTTCAG AGGAAA 116

(2) INFORMATION FOR SEQ ID NO: 6992:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 207  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08227

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6992:  
 GATCCGCTGG GACAGAGTGC CCACCGTCGT GTCTTTNATA TCTCTGTAAT AACCCACAGT 60  
 TAAAAAGGGC AGGAAAAGGC ATCAGGGTAC CATGTTATCA GGCAAGTTCT TACATTCTAA 120  
 GAAAATTCCT AGCTTTGTTG GGTGAGGCAA GTTTTAAAN GAANAATGTC ACTTCCCCAT 180

TTGATAANGA TTTCGTTATC ANT TAAA

207

## (2) INFORMATION FOR SEQ ID NO: 6993:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 325
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08228

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6993:

```

GATCCTGATT GTAAGGTTTT CCACCTATTT CCCTGGATAT TTTNNTGGTC AGTACTGGCT 60
CTGGTGGGTG TTCCTTGTTT TAGGCTTTCT CCTGTTTCTN AGAGGATTTA TCAATTATGC 120
AAAAGTTCGG AAGATGCCAG AAACCTTCTC AAATCTCCCC AGGACCAGAG TTCTCTTTAT 180
TTATTAAAGA TGTTTTCTGG CAAAGGCCTT CCTGCATTTA TGAATTNTGG TCTCAAGCAG 240
CAAGNGAACA CCTGCAGGAN GTGAATCAAG CTGCAGAACA CAGAGGNNTA CTCACCTGCT 300
TTAAAAAAT ANAGTACTGT TGATN 325

```

## (2) INFORMATION FOR SEQ ID NO: 6994:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 130
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08229

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6994:

```

GATCCCTCGG GNNTTAANTA CANGAAACCT AGAACTGACC AAAAGGCATT ATAACCTCTGA 60
CTCAAATACA AGGTACAGAA GATAAGCATC TTTGAGGAAA CTCCTACTTC AGTTCTTTTG 120
TTATNATGNN 130

```

## (2) INFORMATION FOR SEQ ID NO: 6995:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 116
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08230

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6995:

```

GATCATATAA CATTCCAGGT ACTCAGGATG AATGGTTTGA GGACTGGTCT GAATTCTTCA 60
AAGGTTTCAG CTGTATTAAC ATTCTCCATC TAATAAACTT TATCTTGTC A TTGAAA 116

```

## (2) INFORMATION FOR SEQ ID NO: 6996:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 33
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single



(D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08232  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6996:  
 GATCAGCAAA TAAATGAAAT TTATTAAAG AAA

33

## (2) INFORMATION FOR SEQ ID NO: 6997:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 246  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08233  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6997:  
 GATCTTTAGG CAGTTTTTAC TTGGCCAGAA AGCAGTGCTG AATACTTGNA ACTGTGTGCT 60  
 CTGTTCTACT TAATGTTCTG TCAGAATGTT CTTTTGTAGG CAGTATGTCA TGNTGTAATC 120  
 ATCTATCTCC TNGTCTGTTT CCAAGTTNNN CTGTGAAGTC TGCGACCCTT TTGNGGTGGT 180  
 CATCANAGTC ACAGATTCCT TGTTTAACCA NGTGTCCCNA AGCATGTACC TGNAGTTATA 240  
 TCATNN 246

## (2) INFORMATION FOR SEQ ID NO: 6998:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 186  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08234  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6998:  
 GATCATTATG CAATAAAGCT GCTAAAGTCA CATTGTGGT TGATACTCAA GCCTTGTAACA 60  
 AGCACATATC ATGTAGACAT TTTTAAATGT GAAGCTTTAA CAGGNATAGG ATAGCTGTTT 120  
 CAAACCTTGT GCAATTGTAA ATAANTTGT TAGCTGTGTT TCTTTCATTT TTAATANAAA 180  
 NTTAAA 186

## (2) INFORMATION FOR SEQ ID NO: 6999:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 154  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08235  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6999:  
 GATCTTCATA TTAATCTTAA AATTTTGTGA CGTGTCTTTT TCCTTTTTTTT CCACAGTTTT 60  
 AATATATNAT TCTTCAACGA CATTTTTTGT AACTTTACAC TTTTTTGGTT ATNTTATTTT 120

AAAAAATGA AAAATTAATT TAAAAAATG CAAA

154

(2) INFORMATION FOR SEQ ID NO: 7000:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 195
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08236

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7000:

GATCTGGTAC GNGGNGGACG NCATGGCCCG AGATGCCAC GGAACACAG CGCTGACCTA 60  
 CGCCCGNCAG GCCTCCAGCC AGGAGTGCAT CAACGTGCTT CTGCAGTACG GCTGCCCCGA 120  
 CGAGTGCGTG TAGTATCTGT TTTATTTNNC TGNAGTCTCC TTGGTGTAAG AACAAAATNG 180  
 GNAATAAG GATAN 195

(2) INFORMATION FOR SEQ ID NO: 7001:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 163
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08237

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7001:

GATCAGGCC TAAAACGTTG TTGTGATGAG GTTCTTTAG CAAGTTCTTG TTAAATTAT 60  
 CATTTATTTG ATGAGTGAAG TTTTAAACAT GCTTTGCTGT GTGAAATTA AAAAAGGGAT 120  
 GTTTTCCAG GCTGGAACAA TAAATGTGGC TGTGCAGTTT AAA 163

(2) INFORMATION FOR SEQ ID NO: 7002:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 127
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08238

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7002:

GATCTTTGTG AAAGTAGTAC AGTATATNAC CTTTAATTNC TTTTATTTT TAAATATACT 60  
 GTNACCNTGA AGCACTGGTT GGCATTTTA ATTCATGTTA ATAAATCACA ATTATGTCAG 120  
 TTTTAAA 127

(2) INFORMATION FOR SEQ ID NO: 7003:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 123
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08239  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7003:  
 GATCAGCCTC CTGTCTTATG TGGGCACGTT CCAAAGTTTA AATGCATTTT TTTGACTCTT 60  
 GGCCAAAATT TAGAAGATGC TGTGAATATC ATTTTGAAC TGTGTAAATA CATGAAAGAG 120  
 AAA 123

(2) INFORMATION FOR SEQ ID NO: 7004:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 260  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08240  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7004:  
 GATCTCAGCA TTACCTCTTT GGNAAGGAA GGTAGTTCAA GAAATGAAGA GCTGTTGATG 60  
 GGATGATTGA AGAAACAGCT ATGAGAGGAT TGGCTCCCAT CTTTGTGNAC TCTTGGGNCA 120  
 TCCTGTCATC TGAGAATGAA CAAAGACCAA TTTTGTGTGT GTGAAGCTTA AGGGTCATAT 180  
 GTTTGCTTGT NTTTNTNAAT GCTAATCCTT GTGAAANTAA ATTGNCCAGG CGGAAGGAAA 240  
 NCTCTATTTT AGGATNCAAA 260

(2) INFORMATION FOR SEQ ID NO: 7005:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 79  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08241  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7005:  
 GATCTGTATT TNTATATACA CGTGTCCGNA CAAGTATAAC TAAATAAAAA TTAAAGNTTT 60  
 TAATCATTTT AATTGGAAA 79

(2) INFORMATION FOR SEQ ID NO: 7006:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 59  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08242  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7006:  
 GATCATATTT CTGCCAAGNA TGTGCCTTCA ACTTTATAAT TATAGTGTTG TAAAATAAA 59

(2) INFORMATION FOR SEQ ID NO: 7007:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 67  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08243  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7007:  
 GATCTCACTT TTNCTTATTA GAATTTGTAC CTTTGTTTGA TTAAGGAAAT AAAAGATGAA 60  
 TGACAAA 67

(2) INFORMATION FOR SEQ ID NO: 7008:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 76  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08244  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7008:  
 GATCAGTCTC TCAGTGCCTN CCTACTGGGC AGCTCATCTG TCCACTTATT CGTATTAAAT 60  
 TTNCTTTTTTA TTAAAA 76

(2) INFORMATION FOR SEQ ID NO: 7009:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 162  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08245  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7009:  
 GATCCACATC CCANATGCTG AACCAGAGAG CCCCTCATCC CTCCTCCCAG TACTTAGGCA 60  
 GCGCCTTCTG TGTGCACTGC CTCTTGCCGG GCACTGGGTA GGTGCACACG NGGACCGGGA 120  
 CAGGGCCAGA NACTTTGGTN CCCGNGGTTT GTNTGNNGGG NN 162

(2) INFORMATION FOR SEQ ID NO: 7010:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 58  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08246  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7010:  
 GATCGATTAA GTCTAGGAGT TTNAGACTTG CCTGGGCTTA GCAAGACCCT GTGGCAAA 58

## (2) INFORMATION FOR SEQ ID NO: 7011:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 275
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08247

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7011:

```

GATCCTTGAG TCTCCNCTCT GGATGGAATC CGCGAGCTGG CCACCTGGCC ACCCTCTACA 60
CGACTCCACC CNNCCATGGC CGTGGGGGCC TTACTCTCTG ACTTCTCAGG ACACAGGTCA 120
TGGAGGTTCT TCCCAAGCTG GCAGAGGCCA TTTGTGGAAA GTGGAGAGCT ACGTGGTGGN 180
CATCTGCCAA CTCCAGCATC TCTGGNGGGG NTCCACGNTG AATGTNATTT TTGAAAACAG 240
CTTATGTANT TAAAGGTTGA ATGGCACATC ATAAA 275

```

## (2) INFORMATION FOR SEQ ID NO: 7012:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 124
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08248

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7012:

```

GATCAAGACC ACCCTGGCTA ACACGGTGAA ACCCTGTCTC TACTAAAAAT ACAAAAANTT 60
AGCCGGGCAT GGTGGCACAC GCCTGTACAT CCCAGCTACT CANGGNGGCT NGTGGCATGG 120
NGNN 124

```

## (2) INFORMATION FOR SEQ ID NO: 7013:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 215
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08249

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7013:

```

GATCANGAGC CCTTTNCTC CAGTAGTACA GGCTTTGAAA ACTACTTCTA TTAAGTTATT 60
GATGCAATTT GATATTTTTT CATAATCTAT ATTTAAACAA AATTACATCA TTGCATCATC 120
TTTTCTAAAT TCATCTCCAT TAAACTTGC CTTAAGCTAC CAGNTTGCTT TTGCCANNGN 180
NGGCCATACT GTGTGTTTGT TTGTTTAATN NNCTN 215

```

## (2) INFORMATION FOR SEQ ID NO: 7014:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 373
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single

(D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08250  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7014:  
 GATCTCTCAG GGATAGAAGA TATTTCTCAT GAAGGCAGCC TAACTCTGAG GAAAACAATG 60  
 CCAATTCAAG TACAGATTTC AACACATCTT CAACACTATG TGAAGGGTTC ACATCTTAAC 120  
 CTGTGCAATT CAGATTGATA CTCAGAATAT GGGTTGATTT GAATATCTGA AATATCAATG 180  
 GAAAATCCCA CTNNGTTTTT GATGAACAGT TTGAACAGTT TTCTGTAATC AAGCAGCTTG 240  
 CATAGAAATT GTATGATGAA ATTTTNCGNN GGTTCCTGGT GCTGTTTGT TCTTTTTTTG 300  
 TTTTTTGTG TTTTGTATT TACTTATATA CATATAANCT TTTNTGAAA ATATGTTTTG 360  
 GTTACTAANA GTN 373

(2) INFORMATION FOR SEQ ID NO: 7015:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 219  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08251  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7015:  
 GATCCCAACC TGGACCCACT CATGAACCCT CACATCCGCG TGGGCCCCCTC CTNAGCCCCN 60  
 TTGCTTGTGG CTAGGCCAGC CTAGGATGTG GNTTCTGTGG AGGAGAGGCG GGGTAATGGG 120  
 GAGGCTGAGG GCACCTNTNC ACTGCCCTC TNCNTCAAGC CTAAGNCACT AAGACCCAG 180  
 ACCNAAAGCC AAGTCCACCA GAGTGGCTGC AGGNCAGGN 219

(2) INFORMATION FOR SEQ ID NO: 7016:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 91  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08252  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7016:  
 GATCGCTTGA ACCCATAAGC TGGAGACCAG CCTGTGCACA TGGTGAGACC CTGTCCCTAC 60  
 CAAAAAAAT AAAGTCATTA GAGTTTTTAA A 91

(2) INFORMATION FOR SEQ ID NO: 7017:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 176  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08253  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7017:  
 GATCTGATGG TTTTATAAGG GGCTTCCCCC TTCACTCAGC TCTCATTTNTT CTCTCTCCTG 60  
 CCACCATGTA AAGAAGGATG TGTTTGGTTT CCCTTCCATC ACGATTGTAA GTTTCCTGAG 120  
 GCCTCCTAAG CCATGTGGAA CTGTGAGTCA NTTAAATCTC TTTACTNTAT NNNGNN 176

(2) INFORMATION FOR SEQ ID NO: 7018:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 174  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08254  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7018:  
 GATCATCACT TACCCACCCC CCAAGTTCAA GACCAAATCT TCCAGCTGCC CNNTTCGTGT 60  
 TTCCCTGTGT TTGCTGTAGC TGGGCATGTC TCCAGGAACC AAGAAGCCCT CAGCCTGGTG 120  
 TAGTCTCCCT GACCCTTNTN AATTCCTTAA GTCTAAAGAT GATGAACTTC TAAA 174

(2) INFORMATION FOR SEQ ID NO: 7019:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 45  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08255  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7019:  
 GATCCTCCCT TTCCTATAGN GNTAAAAGTG ATTTATCTTG GCAA 45

(2) INFORMATION FOR SEQ ID NO: 7020:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 109  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08256  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7020:  
 GATCATGTGA TGTTGGAGTA GGAGGGTTTA TTTGGTGAC TTTGGGATGC TGGTTTCATT 60  
 GTAGGTATAA TNATGNGGNG CAAAGAATCC AGGNAAGAAT TGCCAGAGN 109

(2) INFORMATION FOR SEQ ID NO: 7021:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 225  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08257

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7021:

```
GATCCCACTG AGGCCAGAGA ATAGGGTCTG GAGACAAAGG AGCATTCACT TCAGCCTCTG 60
ACTGGTGGCA GGCCAAGTNT TTATTTACAT AGGGTGTAAC CAAATAGGAA ACCTCTAAAG 120
GGTACTTAAA CCCCAGATTT TNTACACAGG GCACTTGCTT GAGCCTCATC CCGCTTTCTG 180
GAATGTACTT TTGCTTCAAT AAATCTGTGC TTTTGTTCCT TCAAA 225
```

(2) INFORMATION FOR SEQ ID NO: 7022:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 196

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08258

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7022:

```
GATCTGGAGG GCGTGGCTAC AGGACCCGGG ATGCCATTCA GTTACTCATC TTTNATGCTT 60
TCGTCCTGAC CTGTCTCAAC TAGACTTGCT CCTGCAACCA CCATGGGGGT TTTGCATTTA 120
CATTTGTGGA CCATGTTACA GTTAAGAAAA ATCCTGTTTC AGTCCTTATA TGTAATAAAA 180
TGTTTTATGA TGTAAA 196
```

(2) INFORMATION FOR SEQ ID NO: 7023:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 170

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08259

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7023:

```
GATCTNTCCT CCGCTTGAGA AGACCATGGA ACTGGATAGC TCACTTCCGG AATACAACAT 60
GTTTCCCCGC AAAGGCCGGG GNCTCCCTAG NTCAAATTTT CAATCTCATN AGCAGGTGNT 120
AGAAAGGTNT TGTGGTAGCA ACTNCATGAT TTCTCTGTGA CCAAATNAN 170
```

(2) INFORMATION FOR SEQ ID NO: 7024:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 84

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08260

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7024:

```
GATCAAATGT AAATNTTTTG AGGATATTTT NCTTGTTTTT NAAAATCAAT TTTTAACCAA 60
ATATTAAACC CTTTATTTGC CAAA 84
```



## (2) INFORMATION FOR SEQ ID NO: 7025:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 246
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08261

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7025:

```
GATCCACCAC TGGNCTCTCC CTCCCCCAGC CTGGAGCACG GGAGGGGAGG TGACGGCTGG 60
TGACTGATGG ATGGGTAGTG GGCTGAGAAG AGGGGACTAG GAAGGGCTAT TCCAGGCTCA 120
GCCCTGCTAC TGCAGCTTTG CCGCTGAGTG TAGGAAAAAC AGGCATGACA GACCAGGGTG 180
AGGGTTGTGC CCAGCTGGGC CACGGCCATG CGTGGGGTGG CCCAATAAAC ACCGTGGACT 240
CCCAAA . 246
```

## (2) INFORMATION FOR SEQ ID NO: 7026:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 45
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08262

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7026:

```
GATCAGTCTT TATNAATAAA ACCTGTTCTC TTTAATCAGC TTAAA 45
```

## (2) INFORMATION FOR SEQ ID NO: 7027:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 186
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08263

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7027:

```
GATCAGACTG NTAACCTTAA CACCATAGGT GCAAAANGAG TTGTTCTNAG GTTTTTTTGA 60
AACATTAAAG TTCCAAAACA TGACATTTTT AAGAATAAAT TTGAAATAGN GTATGATTGA 120
ATGCAGAGNA TTATGTACCT CTAATTGCTT AATTTTGTAG NGGTCTTTNA TTGTAGAATT 180
GGNNCN 186
```

## (2) INFORMATION FOR SEQ ID NO: 7028:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 271
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08264

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7028:

GATCTCTTGG TAACAATTGA CATTGCACTA GNATTTGAAT GNTACTGTTG TTGGCATTTC 60  
 TGTANTCTT TCAAGTAGTT GTAAATAATC TCTTTTCTC ATATAAACGG AATGCATAAT 120  
 GTCTTACTCT TGAGTCATTT AGTAGCATTG ATATGGTACC AAGTTGTATA GCAGTGTAAC 180  
 AAAATCATGC TTTGACAATG NAATTTACAT ATTGCCTCAC CTAGAGATGT TTTGTCTGTA 240  
 TGACTNNTNN CNTTNTAAAG TTNGNCNAAC N 271

## (2) INFORMATION FOR SEQ ID NO: 7029:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 301  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08265

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7029:

GATCAAATCA GGGTAATTGG GTATCCATCA CCTCAAACAT TTACCATTTC TTTGTGTTGG 60  
 GAACATTCCA TATCTTTTTT TCTAGCTGTT CTGAAATTG CTATACGTTT TTTTAACTAA 120  
 AGGTCCCTTG CTGTGTTATG GAACACTGGA ATTTGTTTCT TCTGTTTAA TGTATTTTGG 180  
 TACCTATTAA CCAACTTCTC TTTATCCTCC CCCGTCCTCT ACCCTTCCCC AGCCTGTGGG 240  
 AATCACCCAT NCTACTCTCT GCCTTTATGA GATTACTTN TTTNATCTCC CNATATAANA 300  
 N 301

## (2) INFORMATION FOR SEQ ID NO: 7030:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 117  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08266

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7030:

GATCGTAGAA ACACAGAATG GGACTGGGGA AGCCCTTTGG AAATCCAGCT GCAGAAACAG 60  
 ACACCCCAAT GCTATTTACA TACAGCTCTA TATATATAAA AAAAGNAAAT ATGNAAA 117

## (2) INFORMATION FOR SEQ ID NO: 7031:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 297  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08267

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7031:

GATCTACCA GGGCCAGTC ATATATGCAC AGTTAGACCA CTCCGGCGGA CATCACAGTG 60  
 ACAAGATTAA CAAGTCAGAG TCTGTGGTGT ATGCGGATAT CCGAAAGANT TAAGNGAATA 120

CCTAGAACAT ATCCTCAGCA AGAAACAAAA CCAAAGTGA CTCTCGTGCA GAAAATGTAG 180  
 CCCNTTACCA CATGTAGCCT TGGNGACCCA GGCAAGGACA AGTACACGTG TACTCACAGA 240  
 GGGAGNGNAA GNTGTGTACA AAGGNTATGT ATAANTNTTC TNTTTAGTCA TCCTATN 297

(2) INFORMATION FOR SEQ ID NO: 7032:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 58
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08268

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7032:

GATCCTGGGG ACTCATATTC TTTCAGAATC ATGTAAATAA ATGGCATCAT GTTGTA 58

(2) INFORMATION FOR SEQ ID NO: 7033:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 103
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08269

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7033:

GATCTATTTG GCCTCTCAAA TNAAGTNAAG TTCCTGTAA AAAAGATTGA TGTTATTGTC 60  
 TCTTGTAGAG GAACTAATA AAGTGTGTGT ACCTNTGTGN AAA 103

(2) INFORMATION FOR SEQ ID NO: 7034:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 265
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08270

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7034:

GATCAAGAGT NATGGGCCTT GGAGCCCTTG CCAGCCCAGC CCACCTGTNA GGAGGCTGCC 60  
 CATCCCCTCT TTNAGGCCAC CCTGTGTCCT CTCCCCTGCC TCTGCCCAGA GCTCCAGCCG 120  
 GAGTGTCTTG CTGCTCAGAC CCCTCCGAGG TCCAAGTCCT GTCCTGCCAC TCAGCTCCCN 180  
 CTGCACCCCA GAAGAAACGC AGGGTGCGGT TGCATTTGAT TTCAGATAAA CAACAACTTC 240  
 TTAGTAAAT NACCTNCCCA CTAAA 265

(2) INFORMATION FOR SEQ ID NO: 7035:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 46
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08271  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7035:  
 GATCAATCTT GANGTGAAAT ATTTCCAAAA TAAAATTCTA CAGAAA 46

(2) INFORMATION FOR SEQ ID NO: 7036:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 254  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08272  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7036:  
 GATCTTTGCA TAGAATGTCA AGCTAACCAG GCGTCCGNTA CTTCAGAAGA GTGTACTGTC 60  
 GCATGGGGAG TCTGTAAACCA TGCTTTTNAC TTCCACTGCA TCTCTCGCTG GCTCAAAACA 120  
 CGACAGGTGT GTCCATTGGA CACAGAGAG TGGGAATTCC AAAAGTATGG GCACTAGGAA 180  
 AAGNCTTCTT CCATCAGGNG TTAATTGTTT TGTTATTCAT TTAATGGCTT TCCCTGCTGT 240  
 TACCTAATTA CATN 254

(2) INFORMATION FOR SEQ ID NO: 7037:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 222  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08273  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7037:  
 GATCATTGAG AAAGTGTGTTG AAACCTTCTC ATGAAGTGTA TATATAATGG CGTGAAAAAT 60  
 TCCTTTGGAA AAATNTATGT NCCTTTCATT TTGCCCAAAT TGCAAATTTT CAGCATGGNT 120  
 GTGAAAAGCA TTAATAATTAT AACTTTGTGT ACANGATGAA AATAATTCAC TAAATTTGCC 180  
 CTTTTTTACA CAAAATAAAA TGTTAANGTT ANNGCTGGNA AA 222

(2) INFORMATION FOR SEQ ID NO: 7038:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 32  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08274  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7038:  
 GATCAAATGA CANTAAATCA TTCAAATCA AA 32

(2) INFORMATION FOR SEQ ID NO: 7039:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 109  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08275  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7039:  
 GATCACCCAG GTACANCATG CTCTATATCC ATGCGGCCCT AGAAACCCAA GGAACATATA 60  
 CAACCACTCT TGTGTCCCTC CTTATAACCN CAGNTTTATN CNAGAAGTN 109

(2) INFORMATION FOR SEQ ID NO: 7040:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 301  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08276  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7040:  
 GATCACAAAT TGGTGCATTC TTAAGTGTGG ATAATTATGT ATGAAGCCAA ATTGTAATAA 60  
 AACTGTTATT TGCCAAACAT AGAANCCTTG CTTCGTGACT AGGCTGAGCC CAGAGTGTTA 120  
 TTCTCTTCTT CTGCCTGTNA TGTATCTGGG CAATTTGTAG GGCCTTTGCA GGTGAATCCA 180  
 GTAGAGAACC ATGCTAAGAN TGNGCAGCAG TCATGCATGC CTGTATCATT GAAAGCCTTC 240  
 CTNGCCATTT TNNCAGCTTC ACCTTNCGTG GTTTTTATTT TTTCCAGAGG GGCCTGGGG 300  
 N 301

(2) INFORMATION FOR SEQ ID NO: 7041:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 151  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08277  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7041:  
 GATCCTCCTC CCTAAGCGCT TATCTTGGTG CTTCCAGCTC AGTCTGGCCA ATTCCACCTC 60  
 TATGAGATAA GGAGGGTTCA GAGAACCCAG TCACTTTGCT GTTTTCTGC NCACAGAGTT 120  
 TCTCTAATAA ATCTTATTCT ATGTCTACAA A 151

(2) INFORMATION FOR SEQ ID NO: 7042:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 138  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08278

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7042:  
 GATCACATTG TTTGACCCAG TATGTCTTGT AGACACGTTA GTTATAATCA CCTTGTATCT 60  
 CTAAATATGG TGTGATATGA ACCAGTCCAT TCACATTGGA AAAACTGATG GTTTTAAATA 120  
 ANCTAATTCA CTAATAAA 138

(2) INFORMATION FOR SEQ ID NO: 7043:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 300  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08279  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7043:  
 GATCTGTCAA CAGGTTAAGT CAATCTGGGG CTTCCACTGC CTGCATTCCA GTCCCCAGAG 60  
 CTTGGTGGTC CCGAAACGGG AAGTNCATAT TGGGGCATGG TGGCCTCCGT GAGCAAATNG 120  
 TGTCTTGGGC AATCTNAGGC CAGGNCAGAT GTTGCCCCAC CCACTGGAGA TGGTGCTGAG 180  
 GGAGGTGGGT GGGGCCTTCT GGGAAGGTGA GTGGAGAGGG GCACCTGCCC CCCGCCCTCC 240  
 CCATCCCCTA CTCCCACTGN TCAGCGCGGG NCATTANAAG GGTGCCANAN ATTTTTTTNN 300

(2) INFORMATION FOR SEQ ID NO: 7044:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 90  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08280  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7044:  
 GATCTCATTC CATGGGAAAA AAAAAAATCC TGTCTTGTTT ATAAATTGAC AATGTCATA 60  
 AATAGAAATA AAGTGCACAN TAAATGNAAA 90

(2) INFORMATION FOR SEQ ID NO: 7045:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 175  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08281  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7045:  
 GATCTNAGTT AGACATCACC ANTGGAAATC GATTGGAATA GAAACTTAAA GGAAATGGAA 60  
 CCCTGACTAT TCTCCCATCA AATCATATAT GTTGACCTGT CTGAATTATA AACCAGCCTG 120  
 ACCTTTCCTT TAGCATTAGA TGTAATAAAA TAACTTTGGA AATTTGTNAT TTAAA 175

(2) INFORMATION FOR SEQ ID NO: 7046:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 190  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08282  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7046:  
 GATCCTCAGG ACTGACCAGT TAGCTGGCAG GTTGTNCAGC TTTTAATTCC AGTCATAATA 60  
 GGTGACAGTG TTAACCGTGA AANTTTGNGA GGCACNTTTG NCCTCTTCCC TATAAAAATC 120  
 ACACAAGCGT GNTTTTACAA AGGGTCCCCG TGGAACCTT NGCTTAAGGA CCCTTTGNCC 180  
 CNTCAGTTAN 190

(2) INFORMATION FOR SEQ ID NO: 7047:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 147  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08283  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7047:  
 GATCCTCAGG ACTGACCANT TAAGCTGGCA GGTGTGCCA GCTTTTTAAT CCCAGTCATA 60  
 ATAAGGTGAC CAGTTTTAAC CCGTGNAAC TTNGAGGGGA CTTTGCCTT TTCCCTATNA 120  
 AATNACACNG GGGGGTTTTA NAAGGTN 147

(2) INFORMATION FOR SEQ ID NO: 7048:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 223  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08284  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7048:  
 GATCCATCTG CCCTCATAAA AGTGTTTCAGG TACAGCAGCT GAGGCTGCCC TGAGNAATCA 60  
 AGGGGCCATT ACCAAGGGGC AGGAAAAGNA TATGTAAGAG GTGGCCTTCA TGGTAGAGCT 120  
 TGACCCAAGA ACTACTCCAN ATTCGGATGG CCCAGACTGG GNGCATCCCC TGACTTTCCC 180  
 TTTGACTTCA CCCTGTTTGT AAATAAANCA AGGNAGATGC AAA 223

(2) INFORMATION FOR SEQ ID NO: 7049:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 56  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08285

- (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7049:  
 GATCTCCTCC CTNGTTTAAA TGTCAATAAA TGCCCCAACT GCTTTGTAAG TGCAAA 56
- (2) INFORMATION FOR SEQ ID NO: 7050:
- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 107  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08286
- (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7050:  
 GATCACCTTA AAATTATTTN ACGNACTGNA GNCAATNAAG TCCGTTATGT TTAGAGTAGA 60  
 AAATGTTTAG GTTAAAGAGC ATCTGTCAAC AGAATCTACA AAAAAGN 107
- (2) INFORMATION FOR SEQ ID NO: 7051:
- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 125  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08287
- (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7051:  
 GATCCAATTN CATNNGCGGC TGCATCTNCT GCTCATGCCG CCCAAACACC ACCCAGATGT 60  
 CACTTACGTC AAGAAGGTCC GGACCCTCCG TATGCACCTG TTCACGGCCC TGCAGCTGCT 120  
 NTGNN 125
- (2) INFORMATION FOR SEQ ID NO: 7052:
- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 276  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08288
- (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7052:  
 GATCCAAGAA ACGNANGACA CAACAACAAC GATGCCGTGT GTCTGCTCTA CCTGGGCAAG 60  
 CTCAAGNACT CCCTGCGGCA GCTNGAGGCC ATGGTCCAGC AGGACCCAG GCACTACCTG 120  
 CACGAGAGCG TGCTCTTCAA CCTGACCACC ATGTACGAGC TGGAGTCCTC ACGGNGCATG 180  
 CAGAAGAAAC AGGCCCTGCT GGNGGCTGTC GNCGGCAAGG NGGGGGCCAG CTTTAACACA 240  
 CAGTGCCTCA AGCTGGCCTA GCTGNNTNNN ACACAN 276
- (2) INFORMATION FOR SEQ ID NO: 7053:
- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 209



(B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08289  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7053:  
 GATCGAGTTT ACAGTTGTGN NNTCTTGAAG GTATTACTTA ACTTCACTAC AGCTTGTCTA 60  
 GAAGACCTTT CTAGGNGTTA TCTGGTTCTA GAAGGGTCTA TACTTGTCCT TGTCTTTAAG 120  
 CTATTTGACA ACTCTACGNG TTGTAGNAAA CTGCTAATAA TACAAATNCT TGTGTGCCAT 180  
 GGNAAGGCAA ATAAATTTNC TACAGTGNN 209

## (2) INFORMATION FOR SEQ ID NO: 7054:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 126  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08290  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7054:  
 GATCTCATT TCAAGTTAAG TAACTGCTGT TACTTAAGTG ATTACACTTT TGCTCAAATT 60  
 GAAGCTTAAT GGAATTATNG CCCTCAGGAT AGTATTTTGT AAATAAAGNT GATTTAAATA 120  
 TGNAAA 126

## (2) INFORMATION FOR SEQ ID NO: 7055:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 276  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08291  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7055:  
 GATCGACCA TTGCACTCCC ACCTGGGCAA CAAAGAGTGA AACTTGGTCT CAGAAACGAA 60  
 AAAAAACACA AAAACCTTTC TNAGTCCCAG CATATGTGGA GCAGCCTCAT TCTTCATAGC 120  
 TGTGTGTCAT TCCGTTGCGT GATGGGGTCA CAGAGCACAG ACCTGGTGCC CTTTTCCTTT 180  
 TTAATATGTG GAAACCCCTC CATGCTTTCC AAAGCCTACA AGTACAGCAG CCCCNAGTTT 240  
 AGGGTGNGCA GCAGTGGTCA GAGCTCTTTN CTANTN 276

## (2) INFORMATION FOR SEQ ID NO: 7056:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 276  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08292  
 (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7056:

```
GATCTCCAGG AGTCCCCTGC ACATACCTTC TCCATCGTGT CAGCTGTGTT TCTCTTGATT 60
CCGTGACACC CGGTTTATTA GTTCAAAAGT GTGACACCTT TTCTGGGCAA GGAACAGCCC 120
CTTTAAGGAG CAAATCACTT CTGNNNNAGT TATTATGGTA ATATGAGGCA ATCTGATTAG 180
CTTCACAGAC TGAGTCTCCA CAACACCAAA ATATCCAGAT GTAAACCCCA AACTTGATCA 240
CAAANGNAAG CACAGATTGT TTACCTGTTG TGGAGN 276
```

(2) INFORMATION FOR SEQ ID NO: 7057:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 167  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08293

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7057:

```
GATCCCTGTT ACCCAGAGAA TANNTACATT CTTTATCTTG ACATTCAAGG CATTTCTATC 60
ACATATTTGA TAGTTGGTGT TCAAAAAAAC ACTAGTTTTG TGCCAGCCGT GATGCTCAGG 120
CTTGAAATGC ATTATTNNGA ATGTGAAGTA AATACTGTAC CTTTAAA 167
```

(2) INFORMATION FOR SEQ ID NO: 7058:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 69  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08294

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7058:

```
GATCACATAC CCTTCTTTTA AGTGAATTTT TTTCATTGA TTTGTCAATA AACGAATCAA 60
ACTGGNAAA 69
```

(2) INFORMATION FOR SEQ ID NO: 7059:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 222  
(B) TYPE: nucleic acid  
(C) STRANDNESS: single  
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08295

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7059:

```
GATCTCCCTG CCTGGGCTGG CTGTGAGGCC ACCTTTGTCC CAGGCCCAGC CTCAAGGCAA 60
GGAGGGCGCT TCACTGAGGT GTGAATTGTA CGTACAGGCT TTTTATATAC CAAAAGTATT 120
TTTTGACTAG ACCATTCAAA GCTACCCGAA CTATGTTGGA AATTTTTTTT TTCTCATTA 180
AATACAGGCC CTTAGGCTCT ATTTTAAATG TATNAGTCGC AN 222
```

(2) INFORMATION FOR SEQ ID NO: 7060:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 145  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08296  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7060:  
 GATCAAAATA CCTGTTTATA TATCTGTTAT TTAAAGAAAA ATTTTCCACA GTGTTTTGTT 60  
 ATTTTCCAGC GTTTCCTTAGN ACATTGTTGGN ATTNCACTAA AATATAGCTG GGTGGATTGA 120  
 AGTAAAGGGC AANTGCGTTT GCAAA 145

(2) INFORMATION FOR SEQ ID NO: 7061:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 20  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08297  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7061:  
 GATCTTCCAA AACACACAAA 20

(2) INFORMATION FOR SEQ ID NO: 7062:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 227  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08298  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7062:  
 GATCAATCAA GAATAATTTT AATTTTCTTT TGTATTTGAA ATGTAAATAG TTTTCTTTTC 60  
 GATTAAAAAA ATTTCTTATA ACTGCTAAAC AGTTAAANNC TTAAAGTAG TAAATGAGTT 120  
 TATAGAAAGC ATGTATTCTT GATTTTNGTG CCTTGGTAAA GTTGATAACT ATTTATGAAT 180  
 ATTTGACCAA ATTATTCCAG CATCAGAATA ATAAGCAAAA TAACCNN 227

(2) INFORMATION FOR SEQ ID NO: 7063:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 209  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08299  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7063:

GATCACACCA CTGCATGCCA GCCTGGGCGA CAGAGTGAGA CCCTGTCTCA GAAAAGAAAA 60  
 AAAAAAGTAAA AATTGGATGT AAGTTGACCC GCACTATTCA AATTTGTGGT GTTCAAGGTT 120  
 CAACTGTAAT TTCCTAGCAG CATTTTGTGT GTTTGAGAAT CTCTTGACAC TCTTCAAGTA 180  
 AATCCCTAAA TTACAACCTT GACATCAAA 209

(2) INFORMATION FOR SEQ ID NO: 7064:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 130
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08300

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7064:

GATCGACTGA GCTCAAATTT CAGTTGGGGC CCTATTAGTC TGCCTTTCCA AAAAGGGCGT 60  
 TGGGACTTTA ATTTAAACT TAACCAGTTG AAAAATAAAG GTGGCGTGGA AATGCTTTTT 120  
 GATTGCAAA 130

(2) INFORMATION FOR SEQ ID NO: 7065:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 223
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08301

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7065:

GATCTGGGCT TTAAAGCAGA GGCCATGTCC TTGTCTGGTC CTGCTTNTGG CTACAGCCAC 60  
 CCTGGAACGG AGAAGGCAGC TGACGGGGAT TGCCTTCCTC AGCCGCAGCA GCACCTGGGG 120  
 CTCCAGCTGC TGGAAATCTA CCATCCCAGG AGGCAGGNAC AGCCAGGNNG AGGGGAGGAG 180  
 TGGGCAGTGA AGATGAAGCC CCATGCTCAG TCCCCTCCNA TNN 223

(2) INFORMATION FOR SEQ ID NO: 7066:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 260
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08302

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7066:

GATCGGAGAC ATCCTGCTGT TCGGNACGTT GCTGATGAAT GCCGNGGCGG TGCTGAACTT 60  
 TAAGCTGAAA AAGAAGGACA CGCAGGGCTT TGGGGAGGAG TCCAGGGAGC CCAGCACAGG 120  
 TGACAACATC CGGAATTCT TGCTGAGCCT CAGATACTTT CGAATCTTCA TCGCCCTGTG 180  
 GNACATCTTC ATGATGTTCT NCATGATTGT NCTGTTCGGC TCTTGAATCC CAGCGATGAA 240  
 ACCAGGAACT CACTTTCCAN 260

(2) INFORMATION FOR SEQ ID NO: 7067:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 154  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08303  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7067:  
 GATCGAAAGA AGNACATCAT GAAAAATAAA TGAACCTTGC TTAGTGGATT GACTCCTTTG 60  
 CTGAAGTCAG TTATTCATCA AGAATGCAAT TAGNCTAATT GTGAATAAAT GATTGNNTGA 120  
 AGNTATAATA AATAAAACCG TAAACTCTGG CAAA 154

(2) INFORMATION FOR SEQ ID NO: 7068:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 29  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08304  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7068:  
 GATCAATAAA ATGTGATTTT NCTGATAAA 29

(2) INFORMATION FOR SEQ ID NO: 7069:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 74  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08305  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7069:  
 GATCGTCCCA TCACAGTGTT GTTAATGTTT GCTGTATTTA TTAATTTNCT TAAAGTGAAA 60  
 TCTGAAAAAT GAAA 74

(2) INFORMATION FOR SEQ ID NO: 7070:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 264  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08306  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7070:  
 GATCTGGCTT CACAGACAGT TGACACATCT AAAAGAATCT TTGTTTCCAA CTGGACTGAC 60  
 TCATTGAGAG GAAACCTTCA CTGCACCTCA CCAGTGCAGA CAGAAGACCT GGAGGCAGGA 120

CGGGAGGCAT TTTATACTTC AGCACGATAT GGGCCCTGAC TTTTCATTTT CTACATGGAG 180  
 ACATATTGCT GGAGGCTCAT CATCCTGAGG GGAGAAACAT GGATTTCATG GTTTTGCCAT 240  
 AAAAGTATGC AACAAAGAGT TCCN 264

(2) INFORMATION FOR SEQ ID NO: 7071:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 27
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08307

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7071:

GATCANTAAA AAAAATAAAT AATTAAA

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(2) INFORMATION FOR SEQ ID NO: 7072:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 175
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08308

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7072:

GATCTNTTTT NTCTGGAGTC CTGGAGTTNC TTTCTAAGG TTTAATATAA GCAAGCNCCA 60  
 GAAAGAATGC TGACAGAAAA GGGACCCTAG CTGTGGTAGG AAGTGGCCCT CAGAGTCAAG 120  
 GAGGCAGGAT GANTTTAAAT NCTNCATGTA GGGCATATTT TGGGGAGTNA TGGGN 175

(2) INFORMATION FOR SEQ ID NO: 7073:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 281
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08309

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7073:

GATCGACTTT AAGTTGCTTC GGGTCTAGTA GAAATCCGGT TATTTCCAAG CCTGTNAAAT 60  
 GTGAAGTTCA AGAAAATTGA ATCCGTGTAT AGCAAAACCA TTTTNTCTCA CAATTTTTTA 120  
 ACCAATGAAC ATTGTGTGGG AAATTNATTC CATATGTTTT CAAGTCATTT ATGCAACTTG 180  
 AATAATTAAA ATATTCATTG GTAAGAGCTG CCTGATGTCT TTAAAGTCAG GAAATTGTCT 240  
 TATGCCAAAA GTAGACAANC TCAAACACCA AAAGGTCANN N 281

(2) INFORMATION FOR SEQ ID NO: 7074:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 106
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single

(D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08310  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7074:  
 GATCATT TTTT CTTGGAGGNT GGAGATTGGC TAGTACCTCT GGCCTAACTG TGTAGGTCAA 60  
 TACTCTTTTA CATTGCCTTC TAATAAAAGC AGNATGATNC AGCAAA 106

(2) INFORMATION FOR SEQ ID NO: 7075:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 69  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08311  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7075:  
 GATCTTGTGT CTGTTGTGCC TGAATTTGGC GTGTCTAATA AAGGCCCATG CACACTATAG 60  
 GCACTCAA 69

(2) INFORMATION FOR SEQ ID NO: 7076:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 292  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08312  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7076:  
 GATCAGTGAA ATNTTAAACT CCCACGGTAA CATCATGCCT ATGGACATTA AAGGAATAGC 60  
 AAGGACTTGC TCCCACGACT TCACATTTC TCCCCTGGC CAGGAATGTG GGCTCTTAGT 120  
 GATTCCAGAT AAGGGCAAAG CTGGGGCCCA ATGTATGTAG CCAAATTGNA GNAATCATGG 180  
 NGCACAGGCA AATGGTGACA TGAATTTGTA ANCTGTGTTT ATGTGTTNTT ATATTTATAT 240  
 TTCTGANCTC AGTACATGTT AATATTAAAN TAATTATGCA GTAACTTTCA AA 292

(2) INFORMATION FOR SEQ ID NO: 7077:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 29  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08313  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7077:  
 GATCCTGCAC TCTAGCACAT GACTCCAA 29

(2) INFORMATION FOR SEQ ID NO: 7078:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 334  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08314
- (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7078:  
 GATCCCCTGT CCCCTGGGGC TGGTGGATAG GGCAGAATCC TGGGCCCCCA GAGACCTTTG 60  
 CCCACACACA CTCCTTCCGC TTGTCCCTGG GGNACTCCCC CAGGATTGTG CAATAGTCAG 120  
 AGTGTCCCTT TTTGCAGGGG ACTGGGCCAT GGGTCCTAGG CCCATCTGTC CATCCTCCTC 180  
 TCCATGCAAG TGCTGTTTGG GCAGNAGTCA CCATGCAAGG GTGNCATCGN CANCCACGTA 240  
 CCAAGNCACC GCAGCTGCTG CCACTCTGCT GCCTGTACAG AAGGAANCTG NATCTTTTNN 300  
 ATATTCTAAT AAAATNACTG TGGGNTTTNA NAAA 334
- (2) INFORMATION FOR SEQ ID NO: 7079:
- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 245  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08315
- (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7079:  
 GATCCCGTAA ATTGAAGGCA ACAAGGTCTT GGTCTNCAG TAAGGGGGGC ATGGAGCCCT 60  
 GGTGGGAAGG AAAGAAGNGA AATTTGTGTT CCTGATTCCT TAATCCCCAN GAAAGGTCCC 120  
 TCTGCTAACA TTCACATATC TTTTCCTAGC CAAAGTCTGT CCATTNNAAC CCTNTAGCAT 180  
 CTGAGCTATC TGCATCCAGN TTTCAAANAT ATTCGNTGT TTACTAACAT GTNTGTNAGC 240  
 CTNTN 245
- (2) INFORMATION FOR SEQ ID NO: 7080:
- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 88  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08316
- (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7080:  
 GATCACAAAT NACTTGTTGA AATGTAAGGC AGTCCCCCTC CTCCTCTTTA TCTACATTAC 60  
 TTCCCGAAAA TAAATGCANA TTAATAAA 88
- (2) INFORMATION FOR SEQ ID NO: 7081:
- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 149  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear



## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08317

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7081:

GATCAGGTCA CAGTGTGTAC GTAAGAGTCA GCTNCTTATG GNTATTGTCA TCTAGGTAAC 60  
 TTTGTAAAAA AACAAACAAA ACTGGCATTG TTAATTCCAA AAAGAAAAAA AAAAGCAGTA 120  
 AAAANAAANG GNCATTTGNA CCNCCGGCN 149

## (2) INFORMATION FOR SEQ ID NO: 7082:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 312  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08318

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7082:

GATCTCAGCC TCGGGTGGTC AGGGTGGGAA ATGATAGGAA GAAGCTGTCA TCTGCATCCT 60  
 AGTTTGCCTG AAATGAACCC AAATAATACC CATTATTATT AGTCCTGAAT TATGAGTAGT 120  
 GAATGATACC CATCATTCTG GCATCATGAT GAGTAGTGTC CACTTCCATT CTGAAAAGTG 180  
 CCCTGCTGTG AAAAATAAAT TATATAGTCC TCCTAGGTAA ATGAAGGAGG AGGGAGAAGT 240  
 GTGAAAGAGT ATGGCTTAAA TCAGACAAGA TATACAAGAA GATACTTTAT ATAGGGCAGG 300  
 AGCGGTGGCT TN 312

## (2) INFORMATION FOR SEQ ID NO: 7083:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 87  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08319

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7083:

GATCTGGGAA ACTGATTGAA TAATACACTT TTCTTGCTTT GGTGCTCAAA GTGGTTTTTT 60  
 TCCCCCAATA AAATTATTTA ATTGAAA 87

## (2) INFORMATION FOR SEQ ID NO: 7084:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 312  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08320

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7084:

GATCAGGAAA TGCATCTNCG CAGATGGTAT TTCCTTCAGA AAAGACTTTN CTACTTTAAA 60  
 TATAAATNAN GCCATAACAG TTTCATGCTG TGGAAAGAGG GTGAAAAGGT TCATTTTAAG 120

AGATTATATA ATANGACCTT NCACATTTCC TGTGAAATGT CTAACCTTNC CAGTNCTTCA 180  
 GCAAGTTTTTT TTGGGGGGTG ATGGGGGAGNN GGTAGTATTG GTTTTAGAGG TTTCAAATCT 240  
 GTGANCTTTG GAGAGGGGAC AGTTGTTGGC TCTGGTATTT CCTAGTTTTG TAGTAACGTT 300  
 TTGCTAGCCN NN 312

(2) INFORMATION FOR SEQ ID NO: 7085:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 168
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08321

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7085:

GATCTGATGG TTTTAAAAAG GGGTGTCTCC CTGCACAAAC TCATTCTCTG TTTGCCTACC 60  
 GCCATCCGCT TAAGATGTGA CCTGCTCCTC CTGTCCTTCC GCCGCGATTG TNAGGCCTCC 120  
 TCAGCTATGT GGAAGTGTAA ATCGAATTAA ACCTCTTCT TTTGTAAA 168

(2) INFORMATION FOR SEQ ID NO: 7086:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 146
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08322

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7086:

GATCCATGTG TTTTACTCTA AAGTGCTAAA TATGGGAGTT TCCTTTTTTT ACTCTTTGTC 60  
 ACTGATGACA CAACAGAAAA GAACTGTAG ACCTTGGGAC AATCAACATT TAAATAAACT 120  
 TTATAATTAT TTTTCAAAC TTAAA 146

(2) INFORMATION FOR SEQ ID NO: 7087:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 314
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08323

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7087:

GATCAATAAA GCTGTCCTAC ACTTGTGCTA GGNAGGCACC GCTGTGACTG GGCTCCGGGC 60  
 CTTTCCACTA CGTTGAAGAA GAAAACCTAT TTTTAAATGT AAATAAAATA TCTGGTAGCC 120  
 TGTGTGAAA GCTGACCGTT TTAAGAAGTG GCATGTGCCT TGAAAGGGGG CAGAATGTTC 180  
 AGTCGGTCGT GTTTTAAACA CAGAGTCTCT AGAAGAGGTG CAGACATCCC GTCTGACTGT 240  
 CCCTGTGGAC TCTCTCAGTT GTATGTTGCT ATAATCCTCC AAATCAAAGC TCTTTCTGCT 300  
 TGTGCAAGAT TNNN 314

(2) INFORMATION FOR SEQ ID NO: 7088:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 71  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08324  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7088:  
 GATCTTACTG AATTTATTTT GTAAATGCCT AATGAGGCAG ATTTTGAAT TAAAGAAATG 60  
 CTACATGTAA A 71

(2) INFORMATION FOR SEQ ID NO: 7089:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 412  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08325  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7089:  
 GATCCTAACA TATCAGGACA TGGACTCAGG ACCTGCCCCG TGATGCTGTT GATTTCTCAA 60  
 AGGTCTTCCA AAACCTAACA GAGCCAGAAG TAGCCGCCCG CTCAGCGGCT CAGGTGCCAG 120  
 CTCTGTTCTG ATTCACCAGG GGTCCGTCAG TAGTCATTGC CACCCGCGGG GCACCTCCCT 180  
 GGCCACACGC CTGTTCCCAG CAAGTGCTGA AACTCACTAG ACCGTCTGCC TGTTCGAAA 240  
 TGGGGAAAGC GTGCGTGCGC GTTATTTATT TAAGTGCGCC TGTGTGCGCG GGTGTGGGAG 300  
 CACACTTTCG AAAGCCACAG CGTTTCTGGT TTTGGGTGTA CAGTCTTTGT GTGCCTGGCG 360  
 AGAAGAATAT TTTCTATTTN TTTTAAGTCA TTTTCATGGT TCCTGGTCCT GN 412

(2) INFORMATION FOR SEQ ID NO: 7090:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 91  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08326  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7090:  
 GATCTATTTT TGGCTTATGT CTTTAAATAC TACTCTCTTT CTCTGAATTT TGAAATATGA 60  
 AGTAAATCT AGCCCATTTG TTTTATGCAA A 91

(2) INFORMATION FOR SEQ ID NO: 7091:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 294  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08327

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7091:

```

GATCTCAAGA GTTCAAGACC AGCCTGGGCA ATATGGTGAA ACCCGTTTGT ATTAAAAATA 60
CAAAAATTAG CTGTGCATGG TGGCCACGG CTGTAATCCC AGCTACTCAG GAAGCTGAGG 120
TCCGAGAATC ACTTGAATGC TTGAACTCGG GAGGCAGAAG TTGCTGTGAG CCGAGATGGC 180
ATCACTGCGC TCCAGCCTGG GCAACAGAGA GAGACTGTCT CCACTGTCTC CAAAAAAAAA 240
NGAAAAAAAA AAGGTTGTTN GATTCNTGGC CCTCAAGGAA ATNTTGAAA ANAN 294

```

## (2) INFORMATION FOR SEQ ID NO: 7092:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 79
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08328

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7092:

```

GATCATGTTT TGAAGCAGCA GGTCCAGGTC ACTTTGTATA TAGAATTTTG CTGTATTCAA 60
TAAATCTGTT TGGAGGAAA 79

```

## (2) INFORMATION FOR SEQ ID NO: 7093:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 122
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08329

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7093:

```

GATCTTTCCC TAGAGAATGT AACATACGTT TTTATTCATT TAATCACTTC ATTATGCCGG 60
GGTTAATNAT GTTTATTTTA TAATTGGTAA TAAAGGCCAC ATTTATTTTT GTAAGTGTAA 120
AA 122

```

## (2) INFORMATION FOR SEQ ID NO: 7094:

## (i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 50
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08330

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7094:

```

GATCTTAAAC TCTTTGATTA AAAATAATAA ATGGAAATGT GTTAAGCAAA 50

```

## (2) INFORMATION FOR SEQ ID NO: 7095:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 77

(B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08331  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7095:  
 GATCCAGGGA TTTGGGGAAA AGGAAGGAAT TTGATGTTTT TTGGGGTGGG AGGGGAGGGT 60  
 GTGTTTTTTTA CACCAAA 77

(2) INFORMATION FOR SEQ ID NO: 7096:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 186  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08332  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7096:  
 GATCGCTGGC CTCCTGACT TAACATTNAT GCATGCCAAG GTGTTGATGT TCCCAGCCAC 60  
 GTTAACACCT TCCACAAGNT CTCAAGAAAA AGCAGACGGA TAACTGATGT GAATTGGACA 120  
 GTTTCTATTG CTTTTCCTTT TTTCCATCCC TTCCCTACCA TCAAAAGCAT ACCTGCTCTA 180  
 ATTAAA 186

(2) INFORMATION FOR SEQ ID NO: 7097:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 291  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08333  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7097:  
 GATCATATAC TCTGCTGTGG TCATGCCAC TCTTTGGGAG TATATTCCCT TTATATATAT 60  
 TGAGTATTGT ACCACTTGAG AAATTCCTTT GTTCTGTTAT ACAAATTAA TCTTCTGCT 120  
 CATAATGATT GATGATACCA CCAGTAAAA TAGGATGTTT ACCCCAAAAC AAGTGTCAT 180  
 TAAGAAATTG AACACAACCA CATTTTTTAA AATGAACTT CTATCGGAAG TAAATTAATT 240  
 TGNGGTAATA AAGTCCAGTA TTNGGNAAA TGTACAATGT TAAATCTCAA A 291

(2) INFORMATION FOR SEQ ID NO: 7098:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 307  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08334  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7098:

```

GATCAGACTT TTGTTCTTGG GGTCCCAGAT GGCACAGGAG CACTGCATGC TTGTTTTCTA 60
GAGCCCAGCC AGTCATGGGT GCTAGCCTAG TCTCCACACA CCAGCAAGTA GAACCCAAGT 120
GTANNNNNAT AAATATTTCC TGAGTACCAG TAAGAGAATG CATTCTTTTC TCATCTAGGC 180
CAGGAATGTT GAAAATGCTC AGCCTTACAT AGAAACTCCT AGATTTTCAC TAACGCATTT 240
CACAAAAGTA AATAAGTATT TCATATAATT CAGAGGATGT TTAAATTGTC AGCATTTTAA 300
TAAATAN 307

```

## (2) INFORMATION FOR SEQ ID NO: 7099:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 199
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08335

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7099:

```

GATCTGTACT TTGAACAAAG AAAGTGTGTA GAGACCCCTG GGAGTGAGGG GTAGGGGATA 60
CAATACTCTG AAGCAGAAGA GGACCCTTGC AGTGATGGTT AGGGACTCTT CTGAGTAGGA 120
GACGTAATCG GCTTTTGGTC CATGGAACCTT TTACCACATG TATTCAGCAT ATATACACGA 180
TTAAAGTGCT GCAAATAAA 199

```

## (2) INFORMATION FOR SEQ ID NO: 7100:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 297
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08336

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7100:

```

GATCTGGGAG TGGCTTCTTA ACGGAAATGG AACAGGATTA CCAACTAGTN GACGAAAGTA 60
ATGCTTTCCA TGACAACCTT AGGTCTCTTG ACAGNAATCT GCCCTCAGAC AGCCAGGACT 120
TGGGTCAACA TGGATTAGAA GAGGATTTNA TGTTATAAAA GAGGATTTTC CCACCTTGAC 180
ACCAGGCAAT GTAGTTAGCA TATTTANNGT ACCATGGTTA TATGATTAAT CTTGGGACAA 240
AGAATTTNAT AGAAATTTTT AAACATCTGA AAAAGAAGCT TAAGTTTTAT CATCCTN 297

```

## (2) INFORMATION FOR SEQ ID NO: 7101:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 296
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08337

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7101:

```

GATCTTTGTC TGTGAAGAAG AAAATTATCT CCCTAGTTCA ATCTGTAGTG AAATAAGGCT 60
ACAGAAGGCA TTGTTTTTTC CTTTTTNATT TTTTGTATTA TATATTTNCC TTAAATATGT 120

```

TTTATTGTCT TCTCTANGCA AAAAGTTCTT AATAANCATA GTATTTCTCT CTGCGTCCTA 180  
 TTTCATTAGT GAAGACATAG TTCACCTAAA ATGGCATCCT GCTCTGAATC TAGNCTTTTT 240  
 AGAAATGGCA TATGGTTTTG ATGATATGNC CACCATCCAA AATGTCCGAN TNAATN 296

(2) INFORMATION FOR SEQ ID NO: 7102:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 305  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08338

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7102:

GATCAACTTT AAGAAGATTT ACAAACGCT CAAGAAAGAN GAGGATATCC NACTNTTCCC 60  
 CGTGCAGACA AAATACATGG ATGTGGTCAA NGAGTGAATC CGTTTAGCTC GACAGATTGA 120  
 GAAATCTGAG TATCGGAACT TCCAGGCTTG CCTNCACAAC TCTTGGATTG AGCAGGCAGC 180  
 AGCTGCCCTG GAGATTGAGC TGGAAGANGA CATGTATAAG GNAGGAAAAG CTNNCCAGCA 240  
 AGAAGAACGT CGGNGACAAA AGCAGATGGN GGTTCCTNGAA GAAGGAGCTG CGNCNCCTGC 300  
 TTNTN 305

(2) INFORMATION FOR SEQ ID NO: 7103:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 414  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08339

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7103:

GATCCACAAG TCCTTGTTCC ACTGTGCCTT GGTTCCTCCT TTATTTCTAA GTGGAAAAAG 60  
 TATTAGCCAC CATCTNACCT CACAGTGATG TTGTGAGGAC ATGTGGAAGC ACTTTAAGTT 120  
 TTTTCATCAT AACATAAATN ATTTTCAAGT GTAACCTATT AACCTATTTA TTATTTATGT 180  
 ATTTATTTAA GCATCAAATA TTTGTGCAAG AATTTGGAAA AATAGANGAT GAATCATTGA 240  
 TTGANTAGTT ATAAAGATGT TATAGTAAAT TNATTTTATT TTAGATATTA AATGATGTTT 300  
 TATTAGGATA AATTTCAATC AGGGTTTTTN GGATTAANCA ACCANCCAAT TGGGTCCCCA 360  
 GTTAANTTTC CATTTTCAGAT ANCCACCANN TAGTTTCNNN GTNTAGGTCC ATTN 414

(2) INFORMATION FOR SEQ ID NO: 7104:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 252  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08340

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7104:

GATCCCCTGA CTGGCTGGGG GCAGCTCCCA GGATATCCTG CCTTCCAAC TTTTCTGAAG 60  
 CGCCTCCTCC TAACATGGCG ATTCGGGAGG TCAAGNNCNT GGGCTCTCCC CAGGGTCTAA 120

CGGTAAAGGT GACCACATAC CAGTGCCAAG GGGNTTNTAA AGTGGTGATG TAGTTNTGCT 180  
 CCCCTCCCCA AGAGCGGGTG GNGGGGGGTT NAANATGTTT GGCCTGNNTA AGTGGGCCTT 240  
 CCCATTNAAG TN 252

(2) INFORMATION FOR SEQ ID NO: 7105:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 318
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08341

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7105:

GATCTTATTT TTTAATTTTA AGTGCCACTA TTAATGTAAA AAGGGGGGGG CTCTACAGCA 60  
 GTCGTGATGA AACTTAAATA TATATCCTTT GTCCTCGAGA TTTTAGGAAG GGTGTAGGGT 120  
 GAGTAGGCCA TTTTNAATTN CTGAAGTGCT AAGTGTTTTT ATACAGCAA CAAAAAGTCA 180  
 ATTTTCCTTT CCACCAAGTGC GAGAGAGGAT GTATACTTTN CAAGAGAGAT GATTGCCTAT 240  
 TTNCCGTTTG ACAGAGTCCC GTAGATGAGC AATGGGGAAC TGGTTGCCAG GGTCTAANTT 300  
 TGGATTGATT TATGCACN 318

(2) INFORMATION FOR SEQ ID NO: 7106:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 299
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08342

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7106:

GATCTGTGAC CCCAGCCATG AGGACCCTCG CCATCCTTGC TGCCATTCTC CTGGTGGCCC 60  
 TGCAGGCCCA GGCTGAGCCA CTCCAGGCAA GAGCTGATGA GGTTGCTGCA GCCCCGAGC 120  
 AGATTGCAGC GGACATCCCA GAAGTGGTTG TTTCCCTTGC ATGGGACGAA AGCTTGGCTC 180  
 CAAAGCATCC AGGCTCAAGG AAAAACATGG CCTGCTATTG CAGAATACCA GCGTGCATTG 240  
 CAGGAGAACG TCGCTATGGA ACCTGCATCT ACCAGGGAAG ACTCTGGGCA TTCTGCTTN 299

(2) INFORMATION FOR SEQ ID NO: 7107:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 302
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08343

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7107:

GATCTTAGAG GTTGAAGCCC ACCTTCTCTT TTCACATAGG AGGGAACAGA CCATGGAAAT 60  
 TTAAACGACT TCCTCACGGT CACAGAACTA GTTTTTTAAT CCTCAGGCAG TGNATCCCCC 120  
 CACCCTACAA CTGTGCACAA CCTCTTTCCC CACAGTGCAA TTCAGAATAT GCTCAGGGAA 180  
 TGCCAGGCAC CTTGTAAAAC TGCTGGGAGA AAAGCATGNT TCCCACAAGG ACTAAGTATC 240



AGTGATTGT AATTTTCCTG TTTTGTATTA TCTGCTTTC TGATGTAGAC AAGAGTTAAC 300  
TN 302

(2) INFORMATION FOR SEQ ID NO: 7108:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 110
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08344

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7108:

GATCNAACTG TCTCACTGCT TTTCCAATA TAATCATNTC GCTCTNACTT TAACAAAAGG 60  
CGATGGCACA GTAATTTAGT AAATTTNTGT AATAACATNT AAAAAAAGN 110

(2) INFORMATION FOR SEQ ID NO: 7109:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 121
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08345

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7109:

GATCCTGTCT AAAAAAGAAA AGAAAAGAAA AGAAAAGAAA AGAAAATCAG CATTGTATCC 60  
CCGAACTG CTACAGTGTA CTGTACACTT AATAAATATT GGTGAATGA ATGAACTGAA 120  
A 121

(2) INFORMATION FOR SEQ ID NO: 7110:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 99
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08346

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7110:

GATCATCAGT AAATTTGTCA TGTTATATAT TTATTTTTTT ATAAATCAAG ACTTCTGTGT 60  
GCTCTTAAAT ATATTAAAA CAATTTACAT TTCAGGAAA 99

(2) INFORMATION FOR SEQ ID NO: 7111:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 92
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08347

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7111:

GATCCCAGNA GGAGGGAAGA AAATTTGCAG TGACTGAAAA CAGTAAAAAA AAAAAAATA 60  
 ATGTATAAAA AAGTTGCATT ACACAGTNCA AA 92

## (2) INFORMATION FOR SEQ ID NO: 7112:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 304  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08348

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7112:

GATCATTCTN GTTGATACCC TTCTTTGAAT ATTCTAGTGT ATTAATATAC CATTGGTTAT 60  
 TNAATCATGT CTNATTAATG GACTGGCTGT TTTACATAT TNGATATATC AAGTGTCTTC 120  
 ACAACTTGTG CTTCATATT CTTTCCCAA ATATTGAAAG TCCATATATT TCCTTGTA 180  
 TNTTTAAAGT TGATATCTNA ATNTNTCATT GTAGTNGCAA AGCATGTAAT TNCTTGGGGG 240  
 AGGGGGGCTG TAAATATTGA CATTTTAAAA TAAACTTTT AAATCAGCCT TAAATGTATC 300  
 AGGN 304

## (2) INFORMATION FOR SEQ ID NO: 7113:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 309  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08349

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7113:

GATCAAATTT CACGTCGTCT TCTGTATACT GTGGAGGTAC ACTCTTNTAG AAAGTNCAAA 60  
 AAGTCTACGC TCTNCTTTCT TTCTAACTCC AGTGAAGTAA TGGGGTCCTG CTCAAGTTGA 120  
 AAGAGTCCTA TTTGCACTGT AGCCTCGCCG TCTGTGAATT GGACCATCCT ATTTAACTGG 180  
 CTTCAGCCTC CCNACCTTCT TCAGCCACCT CTCTTTTTC GTTGGCTGAC TTCCACACCT 240  
 AGCATCTCAT GAGTGCCAAG CAAAGGAGA GAAGAGAGAA ATAGCCTGCG CTGTTTTTTT 300  
 AGTTTGNNN 309

## (2) INFORMATION FOR SEQ ID NO: 7114:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 282  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08350

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7114:

GATCTTCCCC AGCTATGAAG CCTATCTTGG AATGGGAAAC CATGAAATTT GTCTTTTAAA 60

AGAAAGGGAA GAAATAGCCT TACAGCCCCT GTTCCTCCAA GTGCACATTT AGCCTTAAAA 120  
 TCCTGGGAGT CGGGAACAC CGTGGAGTCC TTACATCCAC AGTGTCTGCT GGTCGTGGTC 180  
 AGAAGGCAGT AATGCAAGAG TCCTTTTGTG AAGAGTGTTC CTATGTAGAG ATGTTTATAT 240  
 TTAAGTAGTT CTTTTATAAA TAAAGCATT TCTAATGGCA AA 282

(2) INFORMATION FOR SEQ ID NO: 7115:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 27
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08351

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7115:

GATCTGTTTT CTGTAACTTT TGCTAAA

27

(2) INFORMATION FOR SEQ ID NO: 7116:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 251
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08352

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7116:

GATCTTAGGC TTCAGCTCTT TATCTTACAC CTTGAGACCC CAAGAGAGTC CCAAATTCCT 60  
 GGAAAGGCAG CATCACAGAG TGGGGAAATA CAGGACTTGG CTTTAGGTTT TAGTCCTTAA 120  
 CACAGCTTCT TCCTTGCTGT GTGTTCTTTG GTAGGTCAC AAATCTCTCT GAGCCTCAAA 180  
 TTTCTTATCT CTAGGTTGAA AAATAAAATA AAGTCCCAT GCCAATCAGT GCAAGGAATC 240  
 TGTGAGATAA A 251

(2) INFORMATION FOR SEQ ID NO: 7117:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 123
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08353

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7117:

GATCACGCCA CGGCACTCCA CCCTGGGCGA CAGAGCGAGA CTTGTCTCA GAAAAATCT 60  
 GTGAGTTTAA AAGGCTGTGT GTGTGAAAT ATCTTGAAA TTGTAAAGAA CTACACAANT 120  
 AAA 123

(2) INFORMATION FOR SEQ ID NO: 7118:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 295
- (B) TYPE: nucleic acid

- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
  - (B) CLONE: HUMGS08354
- (ix) FEATURE:
  - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7118:

```
GATCATTTCAT CAACATGTGT CTCTNAATTT AATTCAGTAG TTGTAATTAT TCTTTGGTTT 60
AGACCAAGAA AAAGGAAATC CCCCTTTTNA ATGTATTCCT TGGTTTNAGG ACATGACTCC 120
TGTAAGGNAG AGGAAAGGGA GATGCTTCCT GTTTGANCTG CAGTGAATTC ACGGTTCCCTG 180
TTTCACCACT CCAAACCTTA TGGCGACTCA CACACACATT CCTCTTTNCT GTTACTGCCA 240
AAGGTTTCGGG TTTAGTACAC TTCAGTTCCA CTCAAGCATT GAAAAGGTTT TCGTN 295
```

(2) INFORMATION FOR SEQ ID NO: 7119:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 203
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08355

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7119:

```
GATCCCCAGG ATGCCCACTT CCCTCCACCC CCACACCCCA GCCGTGTCCC TAACCCCTGG 60
CAACCAGGAA TCCACTCTCC ATTTCTATAA TGTTGNNATT TCAAGAATGT TATTCAATGG 120
AATCATATAG TATGTAACCT GTTTTGAGCT TAAAAAATAA GTATACATGA CTTTAATGAG 180
GAAANTAAAA NTGGATATTG AAA 203
```

(2) INFORMATION FOR SEQ ID NO: 7120:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 82
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08356

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7120:

```
GATCCGTTAG TGTCTGTTTA GAAAAGATGT TATAAACTTA CAGAAACAAA TATAATAAAC 60
TGAAGCAGAT TTGAAAAGCA AA 82
```

(2) INFORMATION FOR SEQ ID NO: 7121:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 79
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08357

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7121:

GATCTTTTGC ATTGCAGAGA TTTTATATAT ATTTTGTGTTG TAATGAGCCA TTCTCAATAA 60  
 ACATTATTCT CACTGCAAA 79

(2) INFORMATION FOR SEQ ID NO: 7122:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 299
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08358

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7122:

GATCCCTAGT AAACCTCCTTC TTCACCTTTTA CTGTCAGATT TACAAAGGTC CTCCCATTGC 60  
 AAAGCAGTGN NNNTCCTAAT TTATATATTG TTTTNTAGT TCATTTTGTG TTTCCAACCT 120  
 TTCATGTAAA ATTTTAATTA TTTTGAATG TGTGGATGTG AGACTGAGGT GCCTTTTGGT 180  
 ACTGAAATNC TTTTCCATG TACCTGAAGT GTTACTTTTG TGATATAGGA AATCCTTGTA 240  
 TATATACTTN ATTGGTCCCT AGGCTTCCTA TTTNGTNACC TTGCTTNNNN NGTGGCANN 299

(2) INFORMATION FOR SEQ ID NO: 7123:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 108
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08359

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7123:

GATCATGTGC CAAGGCTGCG GTGCGTTCTG TCACGATGAC TGTATTGGAC CCTCAAAGCT 60  
 CTGTGTATTG TNCCTTGTGG TGAGATAATA AATTATGGCC ATGGGAAA 108

(2) INFORMATION FOR SEQ ID NO: 7124:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 113
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08360

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7124:

GATCAGACTG TGCTTTCTAA TTCTAAAAAA TTGAGCAGTG TTGGTATTCT TNCAGTATTT 60  
 TTNCTCTCAC CTGGAAAACT ACCTGGAAGT TGTCAGGCAT TTNCTTACTG NNN 113

(2) INFORMATION FOR SEQ ID NO: 7125:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 125
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08361

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7125:

GATCTCTAAG TAATTNTNCA AAATCCGGTA TTACTATGTC AAGTTATTGC TTTTGGTAAA 60  
 TTCATCTGAC CCAGTTATAA ATGAAAGANT ATGGANTTAA AAATTTTAAA NCTAAATAAT 120  
 TTGNN 125

## (2) INFORMATION FOR SEQ ID NO: 7126:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 122  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08362

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7126:

GATCATGCTC CATCCAGCCC CACCCAATGG CCTTTTGTGC TTGTTTCCTA TAACTTCAGT 60  
 ATTGTAAGT AGTTTTTGGT TTGCAGTTTT TGTGTTGTT TATAGACACT CTTGGGTGTA 120  
 AA 122

## (2) INFORMATION FOR SEQ ID NO: 7127:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 256  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08363

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7127:

GATCGGCACT CACGATTGTN ATGTTGGCTA CATCCTTGAC AAAGCCGATG GCCTTTCCAG 60  
 GTTGGAACCT GCAATAACCA TCCTGTTGAG GATGCAAAGG GCATGAAATA CAGGTTATGG 120  
 ACCCGAAGTC TCAGCCTCCC CACGCAGTTC AATAACATTT ACTAAACAAA ACAAGATGTG 180  
 CCAGGGCCTG GGGGATGGGA TAATTTTCTG GAGAATTAAA GCATCCTTGT CCTCAAGGAG 240  
 CTTAGGGTCT GTTAAA 256

## (2) INFORMATION FOR SEQ ID NO: 7128:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 346  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08364

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7128:

GATCAACAGG GGTGAAAAGA ACCACCCTGA GGTTCCTATG CCTCTCCCAN NTTTAGTGGT 60  
 AGNATTTTGT GTCTTTACTC CACCCTTCAC CTTAGTTCCA CCAAGGTTCA CACACCAGAT 120

GTAAGTGT TTNNAGCTGAG TTGTATGGAT TAACTTCAGT CCACTGTAAA TACACCTGGG 180  
 ATGGGGTGGG GTTGGGGTTG TTTAGGGAGA AGCAGCCAGA CTTGCTTTGT GAACTGAATG 240  
 TATTTTTATG CAATTTTGAG TGGCCTTTCA ACCCTAAGAT GAATGGTTTT GTTTTACTGG 300  
 TTGTTGTTAT ATAGTTTTGA GTATTCTGTG TTTGAAAGTT TGGGTN 346

(2) INFORMATION FOR SEQ ID NO: 7129:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 42
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08365

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7129:

GATCGTGTCT CTGATAAAAG AATAAAAGCT GTTTATTGCA AA 42

(2) INFORMATION FOR SEQ ID NO: 7130:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 338
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08366

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7130:

GATCTTAGGT CCCACTCANG GTCCTAACTG GCTATGGCCA CAGCTGGAAC TACCCGAGAA 60  
 GNCTTTTGTA CATGTTTGGT AGCCGTAGCA CAAGTGATTG GAGTAGAACA TGTCCTGCT 120  
 GTACATTTTT AACTCCCCTA ATGGTGTGTC TATAATTNTN AAATCTAAGG GGGGGGGCTC 180  
 AGTAAAGCCT CCTGGCACCA GGCCTTCCTG CTCGACTGAA AAAAATTCN TCTTTGAAAA 240  
 TCCCCTTTTA CTCATGGCCC ACAGTAGAAT ATCCAAACG CCTTGGCTTT CAGGCCTGGC 300  
 CTTTCCTACA GGGAGCTCAG TAACCTGGAC GGCTCTAN 338

(2) INFORMATION FOR SEQ ID NO: 7131:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 294
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08367

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7131:

GATCTTTTCA AGATGCATTC CAGATGAAGT GCTAGGTGAG GGGGAAGCTT CATTTTGT 60  
 ACCTGATAGA ATAGCTTTNC TNATGAGATA TATATAATGT GATACTATGT TTGGATATTT 120  
 TTGGTCTTAA AGCAAGACTC AGTGGTGTAT CTNCATTAAA AGCTTCCTTT AAAAAAGNTA 180  
 CAGGGNTACT AAAAAACAA GNACCCAAAC AATCAAGNTG GGCCACCTT GGNACCNTGT 240  
 TTTGNATNAC CTTCCATGGT TTGGTTGGCG GTATGGNAAA AGGATTGNNT GGTN 294

(2) INFORMATION FOR SEQ ID NO: 7132:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 107  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08368  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7132:  
 GATCATGCTG TGTGGAGGAC AAATCTTTAA AATTCCAGCA TTGTATTGTC TATTGACACA 60  
 CAAAGTTTGA AAATAAAGGG GCAAAAATT TTAATGCAAA AATGAAA 107

(2) INFORMATION FOR SEQ ID NO: 7133:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 328  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08369  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7133:  
 GATCTGCGAT GGCTGACATN AATAGGTCAC CATGTTGGCA GCTGTATAAT CAGCAATGAA 60  
 AGCTGAATAT TATCACCAGA TAACCAAATT ATGAAATATC TATATNANCT TCANGATTCA 120  
 GGNCCANTGA ACCAGTATCT GCCCTTACGA GATTTAGCTG AANGTGAANT GCAAGGTGGT 180  
 GAACGGCATT CTAACAAGAG TGTGAAGAAA GAGATNGANG GCTGTCCGCT GCTGGAGGGG 240  
 AAGAANGGTG GGGCGGCTTT TNCAAGGCTC TGTGGCTCAG TGGACCTTCA ATANATTGGA 300  
 CCTTCAATAA ATTAATTGNA AANCANGN 328

(2) INFORMATION FOR SEQ ID NO: 7134:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 244  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08371  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7134:  
 GATCTGAGGG ATTGCTCGT CATTGCTGT GGCAGAGATG ATGTTGACAC CCTGGGATGC 60  
 TGTGGGAGGG ACAAAGACT CACGTATATG TTCTGTCAAA TCGGAGAAGT AAATAATCCG 120  
 TTGGGATGCC AGGATACTTT ATTCTACAGC GAAGTTAATT TTGTATCCGT CGAGGCTACA 180  
 GTAGAGGTAA AAATGACATT GAGTTGTACT TTGCTTTGAA TTAAAGTTGA TGGGTAGCAG 240  
 CAAA 244

(2) INFORMATION FOR SEQ ID NO: 7135:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 48  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear



(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08372

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7135:  
 GATCTTGACT CCAAAAATTA ATAAATAAAT AAAAATAAAT AAAATAAA 48

(2) INFORMATION FOR SEQ ID NO: 7136:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 48  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08373

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7136:  
 GATCATGGTA TAATTAATTG AAATTTATTA AAATCTGTTT TTATTAAA 48

(2) INFORMATION FOR SEQ ID NO: 7137:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 267  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08374

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7137:  
 GATCTGTGAC TTCAAGTTTG GACCGTGGAA GAACAGCACT TTCAAACCCA CAACTGAGAA 60  
 TNATGACACA GGGACAAGTA GCAGTGATAC ATCAGATGAC GACGATGTNT GAAGGATTTC 120  
 CTAACAGCTT TNGAAATCTT AGTGTGATAC ATCTCTCATA CAGTTTGGGG NGATTGTNA 180  
 AAATGAAAGG ACTATANTTT ATGTAGTGGA ATACCCCN NN AGAAGAGGNN TTTTGGGG 240  
 GCTTCAACTT GNTGGAAACC NAGANTN 267

(2) INFORMATION FOR SEQ ID NO: 7138:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 314  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08375

(ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7138:  
 GATCATTGAA ATTCTGAGAA AACTTCTTTT AAACCTCACC TTTGTGGGGT TTTTGGAGAA 60  
 GGTTATCAAA AATTTTCATGG AAGGACCACA TTTTATATTT ATTGTGCTTC GAGTGACTGA 120  
 CCCCAGTGGT ATCCTGTGAC ATGTAACAGC CAGGAGTGTT AAGCGTTCAG TGATGTGGGG 180  
 TGAAAAGTTA CTACCTGTCA AGGTTTGTGT TACCCTCCTA TAAATGGTGT ACATAATGTA 240  
 TTGTTGGTAA TTATTTTGGT ACTTTTATGA TGTATATTTA TTAAACAGAT TTTTACAAAT 300  
 GGAANAAAGA NAAA 314

## (2) INFORMATION FOR SEQ ID NO: 7139:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 349
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08376

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7139:

```

GATCCAGAGT AAATGAGAAG TCTCTATCTG AGCTGGTCAG TTACTGGAGT ACATGTNACT 60
AATCTGGGTT TAAAGTTTAC TTCATTATCT GCTAGTGTCA TCCACAGCAG TTCATCCTCA 120
TCCACACTAA GCCATCCTGT NAGCTTTTAA AGGAAGTTAA TTTAATTAAC ATTAATATAC 180
TCTATGGGCT CCCTCTCCCA CCTGTCTGCA TAGAAAGGCA GAATTAGACA TAGCATGCTT 240
TGGAAAAGCA AATAGGAATT GTTGGGAATG ATTTANTCTT GTTGTGTGTTG TTGTGTGTTGT 300
TCACCTGTGG TTCTACATTC CTGGTGNATG NTGAATGTNG CTGTCAAGN 349

```

## (2) INFORMATION FOR SEQ ID NO: 7140:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 347
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08377

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7140:

```

GATCTTGTGC TTCCATTAA GAAATTCTTC CATTTAAAGA AGAAAAAAAA TCTCTCTAAT 60
TGACTATCTG AAGATATATG AAAAAGCCTA TGCTTTTAAA TTAANCTGTT AAGACAGTCC 120
ATTGAAAGAT TGTGGAAAGTN CACATCTATT TTNCACCTTA ATTTTTTCCA TTGTCCCTAC 180
TCATGACTCT AAAAAGTGCA TGGCTTGGGG CTATACTTTG TTTTGCAGTT TGTTGGTATC 240
GTGCCTTTCC TTATCTACAT TAGCTTAGAC TATACCTTNT TTTTNAGAAG GGGAAGTGGN 300
AATTAAGTGT GGCAAAACCT ATTTNGGCAC ACCNCCTTTG TTCAATN 347

```

## (2) INFORMATION FOR SEQ ID NO: 7141:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 121
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08378

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7141:

```

GATCTTAATT CTTTGCAATT ATANATGAAA AATGACTGAT TTTTCTNAAA ATATGTAAGT 60
TATNTAAATA TATCTGTTTG TACAGATTTT AACCATAAAA ACATTTTGGG AAAACCATAA 120
A 121

```

## (2) INFORMATION FOR SEQ ID NO: 7142:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 409  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08379  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7142:

```
GATCTGGAAA CTATTTGGGT TTTGTTTTCA ACTTTTCATT NGGATGTTTG NCNTTGCACA 60
CACACATCCA CCGGTGGAAG AGACGCCCGG TGAAACACACC TGTCTGCTTT CTAAGCCAGT 120
NAGGTTGAGG TGAGAGGTTT GCCAGAGTTT GTCTACCTCT GGGTATCCCT NNTGTCTGGG 180
ATAAAAGATN TCAAGCCAGT TGGCGGGATG GAATGGNTGC ACCGCAAATA ATGCATTTNC 240
TGAGTTTTCT TGTAAAAAAA AAATTTTTTTT AAGTAAGNAA AAAANAGGTA ATAACATGGC 300
CAATTTTNTT ACATAAAATG GCCTTTCTGG NGTNTAAATT ATTCCTAAAA AAATCCNGTT 360
TTATATANAC NATCCAGTTG NTGGAAAAAA NTTTTCCAAA NGTTTTTGN 409
```

(2) INFORMATION FOR SEQ ID NO: 7143:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 89  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08380

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7143:

```
GATCTAGAAA ACTTTGGATT TTTGAAGTAA ATTTTAATGT TTCATATTAA TTTCTTGAAA 60
ATGTATTAAA TGTCATTGAA AGCCTTAA 89
```

(2) INFORMATION FOR SEQ ID NO: 7144:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 375  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08381

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7144:

```
GATCACTGTG GACCATCTTA GCAGTTGACC TAACACATCT TCTTTTCANN ATCTAAGAAC 60
TTTTGCCACT GTGACTAATG GTCCTAATAT TAAGCATGTT GTTTATATTT ATCATATATC 120
TATGGCTACA TGGTTATATT ATGCTGTGGT TGC GTTCGGT TTTATTTACA GTTGCNANTA 180
CAAATATTTG CTGTAACATT TGACTTCTAA GGTTTAGATG CCATTTAAGA ACTGAGATGG 240
ATAGCTTTTA AAGCATCTTT TACTTCTTAC CATTTTTTAA AAGTATGCAG CTAAATTCGA 300
AGCTTTTGGT CTATATTGTT AATTGCCATT GCTGTAAATC TTAAATGAA TGAATAAAAA 360
TGNTTTCATN NTAAA 375
```

(2) INFORMATION FOR SEQ ID NO: 7145:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 513  
 (B) TYPE: nucleic acid

(C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08382  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7145:

```

GATCTCGCTC CTTTGAGAGG TCCCATAAAA GCAAGCACCA TGGTGGCAGT CGCTCAGGAC 60
ATGGCAGGCA CAGGCGCTGA CTTTCTCTTC CTTTGAGNCT GCATCAGTTC TTGGTNTTGC 120
CTATCTACAG TGTGATGTAT GGACTCAATC AAAAACATTA AACGCAAAC GATTNGGATT 180
TGATTTCTTG AAACCCTCTA GGTCTCTAGA AACTGAGGA CAGTTTCTTT TGAAAAGAAC 240
TATGTTAATT TTTTTCACA TTAATGACC CTAGCAGTAT CTAATTAAAA ACCATGGTCA 300
GGTTCAATTG TACTTTATTA TAGTTGTGTA TTGTTTATTG CTATAAGAC CTGGAGNGTG 360
AATTCTGTAA AAATGTATCT TATTTTATA CAGTTAAAT TTGCAGACAC TGTCTATTT 420
AAGNGGTTAT TTTGTTTAA TGGATGGNG ATNCCTTNTT AANCACTGGN TTGGNCTGGA 480
TNGTGAAGG TTTTNCAGG GNNTAGTTCC TGN 513

```

## (2) INFORMATION FOR SEQ ID NO: 7146:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 180  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08383  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7146:

```

GATCTGAGAA TCTTTATTGA GAAAGAGCAC TTAAGAGAAT ATTTTAAGTA TTGCATCTGT 60
ATAAGTAAGA AAATATTTTG TCTAAATGC CTCAGTGTAT TTGTATTTT TTGCAAGTGA 120
AGGTTTACAA TTTACAAAGT GTGTATTAAA AAAACAAAA AGAACAAAA AATCTGCAAA 180

```

## (2) INFORMATION FOR SEQ ID NO: 7147:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 187  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08384  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7147:

```

GATCAAGAAA CTGGAAAATG TGAAGCAATC TCTATTGAGA TAGCATCTTA GTGTTTTAGA 60
GAAATCAAGA ATTTTAAAA ACAAGAATAT CAACATTTGG TTTTGTGTAT AAGTGGTGTT 120
TGTATTAAAA TACTTTTCA ATGAAGTGA TAACTATGT TTTATTAAAC TACAATATAT 180
CAGTAAA 187

```

## (2) INFORMATION FOR SEQ ID NO: 7148:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 133  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08385

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7148:

GATCCAGAGG CGAGAAGCCA CCCTGTTAGA NCTCCTGTCC ATCATCCAGG TAAGTCAACT 60  
 CTCTCCTTTC AGGGCCAATC CCCAGACCTT TTGTTGAGCC AGGNCNNTAT CACCTNTCCT 120  
 ACTNACTTAA AGN 133

## (2) INFORMATION FOR SEQ ID NO: 7149:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 172  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08386

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7149:

GATCCTTGTC AAAATGAGAT TCCAGGTCCT AGAGAGCTGC TTTNAGGGAG TTCCAGGAGT 60  
 ACTTACTATT GGTTCATGCAA TAGGAGAACA GAGACCCGNG GGCTGCTTTG GGGGAGGGGG 120  
 GAACTCGAGA ATGTATGGAT TTACCTGAAA ACAAATTATT CATTTAATCA AA 172

## (2) INFORMATION FOR SEQ ID NO: 7150:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 250  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08387

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7150:

GATCACCATT CAATTTGAGT TTCCAGGGGG AAGTGCATGT ATAATGAAAT GATAATGGAC 60  
 TTCAATGAAG AATGTCATCA ATTATGTACA TATGTATTTN CTTTAAATAC AAAGTGTAAT 120  
 TTTGTGCCAG TGAAATGGAG TCTGAATAGT TATGTGTTTC TTTTATCCCT GGAAATATTT 180  
 ATTAACTTT ATAGTTTATC CGAGTATGTT GTATGCTTTG ACAATAAATG ACTATTTTCT 240  
 TCAAAGCAAA 250

## (2) INFORMATION FOR SEQ ID NO: 7151:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 282  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08388

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7151:

GATCATCACC ACCACGGTTC CTGAGGACAT CATGTCCAAC CGAGGCAATN ACCTCCTGCT 60  
 GAAGCTCCTG CAGNATCGGT ATCCCCGGGT GATGGCAGAG GAGGGTCTTC GAGTGGTGAG 120

GCAGTGGTTG GAGGCCTCCT CACAGCTGGA GGAAGCCTCA NTTTATAGCC GATGGGAGGT 180  
 GGAAGAGGAC TGGTGTCTGT NTGTCCTCCG CTCCTACCAG GCAGAACACG GGCCCGACTT 240  
 CCCCTGGAGC GTGGGGGAGG ACATGAGTGC AGATGGACGG TN 282

(2) INFORMATION FOR SEQ ID NO: 7152:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 391
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08389

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7152:

GATCAAAGTA GAAGCNTTTG AATAATGAAT TTAAGGCCAC GCAAAANCTT TCCTCACCTA 60  
 TTGACATGAC ATCTAAAAGA CATTTCGAAC TCGAAAAGCA TAGTGCCCA AGTATGGTAC 120  
 ATTCTNCTCT NACTCCTTTC TCAGTGCAAG TANCTAACAT TCAAGATTGG NCTCTCAAAT 180  
 CGGAGCACTG GCATCAAAAA GANCTGAGTG GCAAAANCTCA GAATAGTTTC AAAACTGGAG 240  
 TTGTTGAAAT GAAAGACAGT GGCTACAAAG TTTCTGACCC AGAGAACTTG TATTTGACGC 300  
 AGGGGNTAGC AAAGTTATCT GCAGNGGTTG TCTCACTCAA GAGNCTTNTA GNCACACAAC 360  
 CAGTCTCTGT TTCAGACTCT GGGTAANTTN N 391

(2) INFORMATION FOR SEQ ID NO: 7153:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 119
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08390

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7153:

GATCTAAAAA TAATTCTTAA TCATGAATTT AATTCACGAC TTCCTTGTTT TCAGTCTTAT 60  
 TCAGCTTACT GTAGGAGATT TTAATANACT AAAGCTTTTG TTGATTTATG AGTTAGAAA 119

(2) INFORMATION FOR SEQ ID NO: 7154:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 284
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08391

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7154:

GATCTTGATC CAAGCCAACG GGTNTCCTGG CTCTCCTGCC CACAGGATGA ACATTTTCGG 60  
 CTCCTTAGG AGTTTGTCCC TACCGTATTC CAAAGCGTGT GCTGGTTTCT CATATTGTCT 120  
 GTAGGCTCAC TCAGCCCGCA GTTTATGTGT GTGCTTTTTT CTATGAAAAA TGATGTATTT 180  
 TGCTACTTCC TGTGTACAAA GTTTTATTGT AAATGTTTTT TGTGCTTTGC ATGAACAGGG 240  
 GCCACGTTGT TGCAATTGTT TCAGTAGAAC TGGTTTGATT TCTN 284

## (2) INFORMATION FOR SEQ ID NO: 7155:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 289
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08392

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7155:

```
GATCGAGACC ATCCTGGCTA ACACAGTGAA CCCCCTCTCT ACTAAAAATA TAAAAAATTA 60
GTCGGGCATG GTGGCGGGCG CCTGTAGTCC CAACTACTCG GGAGACTGAG GCAGAAGAAT 120
GGCGTGAAC T CAGGAGGCGG ANTTGCAGTG AGCCAAGGCG ACAGAGCAGG ACTCTGTCTC 180
AAAAAATAAA AAATAGTGCA CTGTCCTTCG AGAAAGTTTT CTAACATCTA GTAATTTGTA 240
ACTTAGAAGT GGAGTTGCCT TGTGGATGTC TTTTTCGCAT TCTGTAGGN 289
```

## (2) INFORMATION FOR SEQ ID NO: 7156:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 293
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08393

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7156:

```
GATCCAAC TG CAGAGATGGC AGCTGAGTCA TTGCCAGTNT CCTTCGGGAC ACTGTCCAGC 60
TGGGAGCTGG AAGCCTGGTA TGAGGACCTG CAAGAGGTCC TGTNTTCAGA TGAAAAATGGG 120
GGTACCTATG TTTCACCTCC TGGAAATNAA GAGGANGMNT CAAAAATCTT CACCACTCTT 180
GACCCTGCTT NTTTGGCTTG GCTGACTGAG GAGGAGCCAG NACCAGCAGA GGTCAACAAGC 240
ACCTCCCAGA GCCCTCACTC TCCAGATTCC AGTCAGGGCT CCCTGGCTCA TGN 293
```

## (2) INFORMATION FOR SEQ ID NO: 7157:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 69
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08394

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7157:

```
GATCACGATG TAAATAATNA AGCATTTTGG TAGGATGTCT ANNGTAATAA ACAATTTTGT 60
TACCATAAA 69
```

## (2) INFORMATION FOR SEQ ID NO: 7158:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 312
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08395

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7158:

GATCTTGGCC TCCCAAACCC CTTATTTTAA AAATACTTTG CGCCTTGCTT TGATAATTTG 60  
 TATTATGTAT CCAAACCTGAA ATNATCTGCT TTCTGCATTA GAATGTAAGC CCCCTGAGGG 120  
 TTGAGTCAGT CTGCTTGTGTT TGCTGTGCCA CGCCTGATGC CCAGCCCAGC AGCATGCTTT 180  
 GTACACTGAT ATATTGGGTA AATTTTGTGTT AATAAATTAA GCTCAACTAT TTGTATTTCA 240  
 ATAGNTTGAG TTGTATTGCT TCCTGTTCTT CAAGCTTAAA TTTGACCTGT CTAATAAAAA 300  
 GGAGNAATTA AA 312

## (2) INFORMATION FOR SEQ ID NO: 7159:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 92

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08396

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7159:

GATCTTTTGT GGTCTGTAA AAGATACTGA GGAATGTNTT TCAGCCAAGC CAAGAGGATG 60  
 GTTTCAATAA ACCTAATAAT CTGAAGTTCA AA 92

## (2) INFORMATION FOR SEQ ID NO: 7160:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 61

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08397

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7160:

GATCTTGCAA TATATACTCA GGAAATTACC ATGGGCAGAA TAAAATGCTT TTAAAAATAA 60  
 A 61

## (2) INFORMATION FOR SEQ ID NO: 7161:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 319

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08398

## (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7161:

GATCCAAACT GNAGAACTTC TCATTCATCC CCAAGGCCTC CAGGCAGTAT CCAATGGGGA 60  
 ATCAGCTCTA AAAGGAACCA GACCAACGTT TTCCAGCCCC TTNATTCTGC TTCNTCTGT 120  
 NTNAGGAAAG GNTAGAAATN TTCAGGGCAT CATCATACAG GCTCCTCATC TACAAAGTTC 180



CAGTAGCAGT GACGCCTACA CGGAAGANTT GGAAGTCAA ACAGGCTGGG GTCACCTCAN 240  
 TNGCATCTGA CGCTGTCCAA CCAGAAGTTC GATTTTNNTN CTGGGGGTGA AGGTGGAAAC 300  
 AGACTGTACT TAAAGGNTN 319

(2) INFORMATION FOR SEQ ID NO: 7162:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 134
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08399

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7162:

GATCCANAAA TAAGTTTAAC TTACGGAGGC TTCTAGTTCT AAAGATGCAA NGTAAGATGC 60  
 CAAAGCAGTG GAAAGATTGA AGTCAAACAG TCGGGCCCAT GTGTGTGTCN TACNTCAACC 120  
 NTTNGTGTGT TATN 134

(2) INFORMATION FOR SEQ ID NO: 7163:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 147
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08400

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7163:

GATCTATGTG TCTGTNTGTG TGTCCATCCC GCCGACCCCC CAGACTAACC TCCAGGCATG 60  
 GACTGAATCT GGTTCCTCTC TTGTACACCC CTCAACCCTA TGCAGCCTGG AGTGGGCATC 120  
 AATAAAATGA ACTGTCGACT GAACAAA 147

(2) INFORMATION FOR SEQ ID NO: 7164:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 320
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08402

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7164:

GATCTAGNAA CTAGNAAATA CTATTTGTCC CAGCAATCCC ATTACTGGGT ATATACCCAA 60  
 AGGAATATAA ACCATTTAAT TATAAAGATA CATGCAGATT TTTATTCATT GCAGACTCT 120  
 NNACAATAGC AAAGACACAA TAGCAAATGC CCATCAAAGA TAGACTGGAT AAAGAAAATG 180  
 TGGTACATAT ACACCATGGA ATACTGTGCA GTGCAGCCAT TACAGCTTTT GGTGATACAG 240  
 TGAATCAGAT TTTNNATTAA TTCTTTTAAT TGTTATTAC TGNNCGTGGA NNAGTAATGG 300  
 TTTGTATTGG NATCCTTGNN 320

(2) INFORMATION FOR SEQ ID NO: 7165:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 74  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08403  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7165:  
 GATCCATATT TTAAATTGCA ACCCTGTTCC CTATGATACC TATCTGTCTA TGAATGAAAC 60  
 AAAGGTTTTA CAAA 74

(2) INFORMATION FOR SEQ ID NO: 7166:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 178  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08404  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7166:  
 GATCCAAAGA ACTTCTGTTA TATGGGTTAT AGCTGTTAAT ATTTGTCATA TTCGAAATTG 60  
 AAATAAGATT TTAAGGTATT TTAAAATAAC AGTNCAAAAC CATTGTATNT TGACATGAAT 120  
 AACACTTTTA TGAAAATAAC TATATTCCAA AACAATAAAA TTACCAAAAA GTTGCAAA 178

(2) INFORMATION FOR SEQ ID NO: 7167:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 98  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08405  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7167:  
 GATCACAGAT TTCATCAGGA TTGAGCTGCG TGGTAAGCTC GCCACTCTGG ACAAGTCACA 60  
 GGGTACCCAT TATTTAGCAA TAAAAGCTTT AACTCAAA 98

(2) INFORMATION FOR SEQ ID NO: 7168:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 110  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08406  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7168:  
 GATCTCTGTG GCCTAGGTTT TGTACATACA GAACTGCAT GGTATTTAAA TTATTGTTTG 60  
 TCTCTGATGA TGTATGCAGT TTCTTTAAAA ACAAACCAAA AAAAAGTAAA 110

## (2) INFORMATION FOR SEQ ID NO: 7169:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 298
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08407

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7169:

```

GATCCTGAAG AGCGCTGAGG GACGGGTGCT TCGNCGANCA GCACCAGCGA NACGTCAAAC 60
TCATGAGACA GATGCTAATG GATGCCGNCC TCCCTANTTG TCCACTGCCC CAGCCACATC 120
ATCCCTGTGC GGGTTGCAGA TGCTGCTAAA AACACAGAAG TCTGTGGATG AGCTAATGAG 180
CAGCCATAAC ATCTACGTGC AAGCAATCAN TTACCCTACG GTGCCCCGGG NAGAAGAGCT 240
CCTTCGGGNT TGCCNCNACC CTTNNGGGGG GACCCAGGA TTGNTGGAAC TAANTTCN 298

```

## (2) INFORMATION FOR SEQ ID NO: 7170:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 329
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08408

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7170:

```

GATCCACCCG CCTCGGCCTC CCAAAGTGCT GGGATTATAG GCGTGACCNC TGCACCCGGC 60
CAAAAGTTGA TTTTAAATTA CATAAAAATC GTAAAACTT CTAGTAAAAA CTTGATTNNG 120
NGANTACAGT TATATTTTAA AACCTTAAGG TGACAAGCAT TTTCTATGCC TAAATCTTCA 180
TTGGTTTGCC TGGAAAGAGT CTCTGTAAAG AGATTTTCCA TATTCAAAGT AAAAGGAAAG 240
ATTTCTTGCT TTCTAATTGT CTTTGGGACA CATGCCTATT TTCTTTGAGG TATAANCCTT 300
TAGATGTGAA ANATGTAATT TCCATTCNN 329

```

## (2) INFORMATION FOR SEQ ID NO: 7171:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 213
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08409

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7171:

```

GATCCAGATT TTTCTGTGTTG TGTCTGAAGA GAACCATGAC ATTTAGAAGT ATATTGGTAA 60
TCTATTAGGT CCATTGGCAA AGTATATTGG TCCATATTCA AACCTATTCC AAAAGGTTAG 120
AAGTGTTTAA GATTCCTTTA TTGTGGTACC ATGTCTGTTT ACCTATGCTT ATGAGCAACA 180
ATAANTTACT AGTTTACCTT CTGGAATTTT AAA 213

```

## (2) INFORMATION FOR SEQ ID NO: 7172:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 332  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08410  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7172:  
 GATCTGGTGG GCAGTCGAAC CATGGTGAAC TCCACCTCCG TGGAATAAAC GGAGATTCAG 60  
 CGTGGGCGAC TGAATCCAGC ACGTCTGTGT GAGTANCGGG ACAGTAAACA CTCCACATNN 120  
 NNTCAGTTTT TCACTTCTAC CTACATATTT GTATGTTTNN NTGTATAACA GCCTTTTCCT 180  
 TCTGGTTCTA ACTGCTGTTA AAATTAATAT ATCATTATCT TTGCTGTTAT TGACAGCGAT 240  
 ATAATTTTAT TACATATGAT TAGAGGGATG AGACAGACAT TCNCGGGNT ATTNCTTTTA 300  
 ATGGGCACAA AATGGGCCCT TGCCTCTAAN GN 332

(2) INFORMATION FOR SEQ ID NO: 7173:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 332  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08411  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7173:  
 GATCCAGAGG CTCAGTGAAC CCCATCAACT TGGTGGCCCT GGTGTCTCAC ACTTGATATCC 60  
 TTCTGCCCTC GAGACCTGGC ACAGCAGTAT CCCTTGAAGA AATCCTGAGG CTTTGTAGAG 120  
 TGCTCCTTGA CCATGTTTAA TAATTCTTCC CTCCCCTGCT TGTNTATTTT TTTCTCTTCA 180  
 CGGCTCTTCC TATACCTTAG GCCAGTCTCA AGCACTCACT GGAGACCCTT GGGCCTTGGG 240  
 CGACCATTGA GTCCTAGTCT CCCTTGTTTG TGCCCCTGTA GGAGGTAGGT CCTTTTNTCC 300  
 TCCGGCCTAG TAGGGGACCT TGGGTAACAT TN 332

(2) INFORMATION FOR SEQ ID NO: 7174:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 127  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08412  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7174:  
 GATCTGCTTT GCAGAGGAAA TAACTTGTTT TTTCTCATGT TTCATCTTCT TTTTATGTAA 60  
 ATATGTAATA CTTTCCTATA TTGCCCTTTG AAATNTTTGG ATAAAAGATG ATGTTTAAAG 120  
 TTCCAAA 127

(2) INFORMATION FOR SEQ ID NO: 7175:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 144  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single

- (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08413  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7175:  
 GATCTGCCCC CCTCAGCCTC CCATTGTTGA CCATTTTAT ATGTTTATTT ACCTATGTGG 60  
 TTTTCTTTTC TCATAAAATG CTTGTTTCATA TATTNCCCC ATTTCTACTT ATCTNGTTCT 120  
 TATTAAATNG CCAAAGTGCA TAAA 144

(2) INFORMATION FOR SEQ ID NO: 7176:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 347  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08414  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7176:  
 GATCATCTCT AAAATTAAAA AAATTAATAT TAAATGTTGG ACCAAGGATT TCAACCATGC 60  
 AGTATGTTGC TTCTGGGGTC TGCTGTCCTA TTCCAGCCCT AGTGAATAGT TAATGCCTTG 120  
 AACTATTCTT ATCACCACAG GTTGCCAGGC CACCAAATAA CGAAGCCAAT CCAGGATTTG 180  
 TCCATACAGA AAATGTGTGC GCTCCCAGCT AAATCTCAGT TAAGGAGGTT GTTCTATATA 240  
 CAGCCAAGTA GCAGAAATAT TCATAAATGT CATTTGCAAA TATAATAAAC ANTGTAATGA 300  
 ATGGGTATTT CCTTCTTGT TAATTCTATG TGCTCAATTA AAAGGNN 347

(2) INFORMATION FOR SEQ ID NO: 7177:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 213  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08415  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7177:  
 GATCATACTA ATAATTTAAT ATTTGAATTG TATGGAAGTA CAATTCAGTA TCATTTTACA 60  
 TATGGTATAT TGTGATGCTG TATCATATTT TATGTTACGG TTTATAAGAA AAGCTCCTAG 120  
 GTATAAAATG CTACATAGCA GGAAGTTGGT TTTTCAATGT TATTATTTCC TACTGTTTTT 180  
 GACGTAACGG CAATAAAATT TGTTTGAACC AAA 213

(2) INFORMATION FOR SEQ ID NO: 7178:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 161  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08416  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7178:  
 GATCTTAAGA AGAGAATAGA ATCTTTAATT GACCGGGACT ACATGGAAAG AGATAAAGAA 60  
 AATCCAAACC AGTACAATA TATTGCATAG AATGTTGGCC TTGCAGCATT TGGTGTGATA 120  
 TGCAGTAGCC AGTGGATAAA CTAACCTGTT GATTCAATAA A 161

(2) INFORMATION FOR SEQ ID NO: 7179:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 69  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08417

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7179:  
 GATCATGTGC AATATTTCTT ACTGTGCCGA GAAGCCACAA TGAGCGAGAT TAAAGCTGTT 60  
 TAACACAAA 69

(2) INFORMATION FOR SEQ ID NO: 7180:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 348  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08418

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7180:  
 GATCTCTGTT CCTTTTGGCT CTAATATGCT ACAACTGTAG GCCAATTATC ACTTTACCAA 60  
 TTAAGAGTTA GGCCAGATAA GTGAAATTTA ACTTAAGGGC ACACAGCTAA TAAGTAATAG 120  
 GCCTAAACTG GATTTCTTAA TTCCAAATCC TGTCTTTTCC CCACTATTCC ATTAGACCCC 180  
 ACAAATGTTA GTTGTGTGTG TGTGTGTGTG TGTTTTAAAT CACTGTAACC GGGTGCATTT 240  
 TTTTAAGGCA AAATTTCTCC CTTATCTACT GTGATGACTT CAGAAGATAC ANTGGTCCCA 300  
 GGGGCCAAGT AGAAAGCATT TTAAAGNTT AATCTGAATT AAGCTGAN 348

(2) INFORMATION FOR SEQ ID NO: 7181:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 132  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08419

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7181:  
 GATCCACTTC TGTAATTAAG TACNTGGTTG TCTCGTGATG CGTCTACAGT TATTTATAGT 60  
 TACAACCATT ACCNGNCACT GTAGATACAC ATATAAAAAT AGNTGTTNGG TATCCATAGT 120  
 TNCGCTTGTT CN 132

(2) INFORMATION FOR SEQ ID NO: 7182:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 85  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08420  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7182:  
 GATCTCATCA CTGCACTCTA GCCTAGGTGA CGGAGCGAGA CCCTGCCGCT AAATAAATAA 60  
 ATAAATAAAT AACATAGTAG TGAAA 85

(2) INFORMATION FOR SEQ ID NO: 7183:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 224  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08421  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7183:  
 GATCATGGAC TGGTGCCTTT GCATTCAGAA GGAGAGCTGT CAGCGTANAC CGAATTCAAG 60  
 ACCAAGGCCGT GCTACCTGAG CTGACAGCTT TTTGAAAGCC GAGCTGTTTC TGAACCATGT 120  
 ACATACATGT TCTGAAACTT TCTCATCATT TTATGAGTAC TGTTTCATTGA GAGATGACAA 180  
 TGAAGATTAG ATGAAATTGG AAATAAACCA ACATTGTTTA CAAA 224

(2) INFORMATION FOR SEQ ID NO: 7184:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 38  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08422  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7184:  
 GATCTCTGCA GTATTAAAAA GATGTACTCC CAATTAAA 38

(2) INFORMATION FOR SEQ ID NO: 7185:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 67  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08423  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7185:  
 GATCTTTGGC AGTGCCAGCA GGTAAATTT TGACCTGCTC AATTAAAAAT AAACACTGGC 60  
 GTTTAAA 67

## (2) INFORMATION \*FOR SEQ ID NO: 7186:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 117
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08424

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7186:

GATCTTCAAA GAAGAGAATG TAATTTATAC CATGAATATG TTATTTTTTC ATGTTGGAGC 60  
 ACTGAAATAC TTTCAGTTTG TTTTCTTATT GTTTAAATAA AATTTTAAAT TCTTAA 117

## (2) INFORMATION FOR SEQ ID NO: 7187:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 231
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08425

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7187:

GATCTTTGTT ATTTTAGGGG GGAAATCACA TGGTATCTAG CATGGGACAA AGCAGCAAAA 60  
 TAAACCAAAA GGACAATCTC TATTTTATAT AGAAAATAAA CATACTTTNC TGCATCCTGT 120  
 GTACTTTAAG TATATCTATA TTTNTNANGG GTTCATACTG TGTTGANTTT NCCTNATGAN 180  
 ATAGTCACTT CCCAGTGTA TTTTAATGCA AATGCATATN CTATAANNTA N 231

## (2) INFORMATION FOR SEQ ID NO: 7188:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 197
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08426

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7188:

GATCTCTGTT CTAAGAAAAG GAGTGTGCCT TGCATTTAAA AGGAAATATT GGTTTCTAGG 60  
 GAAGGGAGGA GGCTAAATAA TTGATACGGA ATTTTCCTCT TTTGTCTTCT TTTTCTCAC 120  
 TTAAGAATCC GATACTGGAA GACTGATTTA GAAAAGTTTT TAACATGACA TTAAATGTGA 180  
 AATTTTAAAA ATTGAAA 197

## (2) INFORMATION FOR SEQ ID NO: 7189:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 115
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:



(B) CLONE: HUMGS08427  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7189:  
 GATCAGGAGA CAGGGAGGCC CCGCACATCA CACAGATAAA GTCAGACAAT TGTAATTAAT 60  
 ACTTTTGCTG CCTCAAGTTG TTTTTTAAAT AAAGTACTTT GAAATGCATG AGAAA 115

(2) INFORMATION FOR SEQ ID NO: 7190:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 329  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08428  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7190:  
 GATCCTTGTG GGCATTATTC TAACTGATAC GTAGACACTT ACTTGGAAN NNNNGGACAT 60  
 TATATTAAAT GAGTGCTATC TGTGAAATTG GTTATATTAG GTGGCTTGAC TAATGTTTTT 120  
 CCTATAATTG TATATGGACT GCATTTTTTAA AAAAAACCGC ATTTGCCTTT ATGCTAGATT 180  
 GTAAAAAATT ATATTAGAAT GCATAAGACA TGTTTTNCCN TCATATGCTA GACTTTNCCT 240  
 AGCATTTCGT ATTTCTGTGT TGTCAGTGTG TGATTTTNA ACCGGAATTT GGTTTAAAAA 300  
 AAATCTGGTG GTAATATATG TGAGAANTN 329

(2) INFORMATION FOR SEQ ID NO: 7191:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 353  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08429  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7191:  
 GATCTTCATT CCAAATTTTA CTGCATGGAA ATGACTAATA ATGTGCATAA AAAGTTAACT 60  
 ATAAGGATGC TCACTGCAGG GTGGCTTATA TTAACACAAA TTCACAAACA ACTCCACTGT 120  
 TCCAGCACAG CAGTGTTTGG TAAATCATGA CATGTTTCTA TGCTCAATTA CTATCCAAT 180  
 TTTGAGAATT AGGTTGGAGA TATGTAATTN CCAATATGAA AATAAATTTT CTATATNCTA 240  
 TTTAGTAAAA NTAATTCATA AATNTCCATT TTTNCAACA CTTTCATGAAT TTNTTCCAAA 300  
 ATACANATGT TATCTATCCA TTTNGGAATT AGGANTGGTT NNNATCATTT TGN 353

(2) INFORMATION FOR SEQ ID NO: 7192:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 352  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08430  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7192:

GATCTCAGTT TTTCCATCAA AATTATAATA TGCTCATGAA AATAATATTA ATTTGCCTTC 60  
 CCTTTGCAAA CÄCCGOCAGT TGAAAGGAAA AGGACGGGGA ATGTGANNNN AAAGAGACCG 120  
 CCTGGAATAA ATGTCCCCCT ATGATTCTTT AAGGCAGTGG TTCTCGAGCT TGAATTTTCA 180  
 TTAGGAAATT CTGTGAGGNG NTTGTAACCA GATTTCTGGG TCTGCCACAT GCACCTATCT 240  
 NTNGCTGAAT TGCTTTAATA GAATAATGAG AGCAAGTTTG TCTAACTAAT ACCAACCTGN 300  
 CANCTTGAAT ANCAATAAAA TGCAATTTGG TACATAAATT ATAATGCTGC NN 352

(2) INFORMATION FOR SEQ ID NO: 7193:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 348
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08431

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7193:

GATCCTGGAG AGGAGAAATC CTGGCCTCTG CTCATGCGCA GGTCACAACC GGGCTGGAAG 60  
 TCGCGTTNAG CTCTCTGCCA CTTTCTTCAA TGTA AAAAGT AGGCATCAAA GATACGACTT 120  
 CTACTATATA CATTTNTNTG TCCCTGAGAA CAGAGAAACG TAACCCTGTA GGGGACTGGT 180  
 TACAGAGGAC CTCCTGGAGC ATCTGCCCCA TTCCTCCAAG TCCAAGCACA GCCATGCTGA 240  
 GTGGAAGCNA GGCCACCATC TGAGTGGATT GGTCCCAAGT NTGTAATGAG GAAAGTGGCC 300  
 AGGTGCCGGC ACAGTGCCTC TCCCAGAGCC TCAAGAAGGG CCATTNGN 348

(2) INFORMATION FOR SEQ ID NO: 7194:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 349
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08432

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7194:

GATCACAACCT CTCAGTCTAC CTGGAACACC CCACCCAACA TGCCTGCTGC CTGGGGACAT 60  
 GCCAGTTTCA TCAGCTCTCC GCCCTACCTC ACAAGCACCC GAAGCTTGTN TCCAATGTCT 120  
 GGACTTTTTG GTTCCATCTG GGCCCCGCAA AGCGATGTGT ATGAAAATTG CTGCCCCATC 180  
 AACCCACCA CGGAACATTC GACCCACATG GAAAACCAAG CGGGTCGTGT GCAAGGAATA 240  
 CTACCCGGGG TTCAACCCGT TTCGCGCCTA TATGAACCTG GACATATGGA CTACCACAGC 300  
 GAATAGGAAT GCAAATTTCC CACTGTCTAG AGACTCGAGT TACTTGTNN 349

(2) INFORMATION FOR SEQ ID NO: 7195:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 342
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08434

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7195:

GATCTGCCTG CCTCGGCCCTC CCAAAGTGCT GGGATTACAG GCCTGAGCCA CTGCGCCCAG 60  
 ACCAAAAGTT TTTTAAATG GATGTTTTAC AGATAGAACT AAATTCTTCA TTTACCTCAC 120  
 TTAATTTCTG AAAACACTGT GTCCTCCAAC TGCTCTGTAT TCCCAAAGAT TAAAATTAGC 180  
 CTTGGGGAGC AGAGCTGGTT CCTCGTAAAC CCCTGTGAGT GCCCAGACCC TTTGGAGGAG 240  
 GTTCTCAGTG GGCTTTTGCC TGCTCCCACA GATGTAACCC ACCCTTCCTG CTGCTCCTAA 300  
 GACCACCATG AGGAAGGCTG GGAATTGGCT CTTGAATTAA NN 342

(2) INFORMATION FOR SEQ ID NO: 7196:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 364
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08435

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7196:

GATCTGCATT TNNAGGTTCC GAGCCTGACC CCTGGAAGT ACCAGCGCTC GATTGTNAGC 60  
 CTTGGCCTGG GGTTTTAACC TTGCCAGTGA AGTTTCGGTT TTAAAGTGAT TAAATGTCAC 120  
 TTCCTCATCA GTTTCACCTC TGGAGGTTTT CTTATCCTAC TCCCTGGTGC CAGGGACGTA 180  
 CCTGGGAGTT TGAATCAGGC CCATTGAGC GTGGCAGCCG TGTTGGGTGA AGGTCCGGGG 240  
 CTCGGTGAGG CACTGGGGGG GTTTTCGGGA GGAAATGAA AATGCTTCTA GAATGAGTGA 300  
 ACCACATCAT AGCTCTCACT GTTTTTTCAA TAGCTACTTT TTTTAGCAGA CACAGAGCC 360  
 ACAN 364

(2) INFORMATION FOR SEQ ID NO: 7197:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 30
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08436

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7197:

GATCTCAAAA TAAATTCAGA AAGAAATAAA 30

(2) INFORMATION FOR SEQ ID NO: 7198:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 196
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08437

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7198:

GATCTGCCTA GCCAACTTTC TTAACCCAAG CCCAACTGA AAGTCTAAAA GATGTATTTT 60  
 TGGGGAATTA CCCCACCTCA ACATTCTCAG GTTTNCCAGT GTNCTCTGTC TGTNTCAGTA 120  
 TTTTAAAAAC ACTAACTCAA TAATNCTCAA AAATCAAAGT CTGCTTTNAT NATCTGGTAA 180  
 TAAAATAATA GGCAAA 196

## (2) INFORMATION FOR SEQ ID NO: 7199:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 102
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08438

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7199:

GATCCGCCCA TCTCCGTCTC CCAAAGTGCT GGGAATNACA GCGGTGACAN CCAAACCCGG 60  
 CCTGATTAAA GTTAAATAAA TACTAGTTCC CTTCTCGTCA AA 102

## (2) INFORMATION FOR SEQ ID NO: 7200:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 341
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08439

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7200:

GATCAGTGCA TTTAGACATC CAGAAGTTAC TTCCACTATT GAGGAACTAT GTAGACATGA 60  
 ATTTAAGCTT GTACATGTGC CAATCTTGTT AATGTCATT GACCACTGAT TCACATAGAC 120  
 AGACATTAAC GTCTGATGCC TCAGGTTGAT GGCGAACTTN CTTCTAGTG TCTTAACATT 180  
 TATGANCTTA TGTTTGACTT GAGGGGCATT TCAGCAAAGC TGTGNAGGAA AAGTAGGTTC 240  
 TGGNCTGATG TCTGCTTTGT NCCATAGACA TTTTGGAGCA TAAGGNAGTA TCTNCTTCTG 300  
 CTATATGTNC AGGGCTTGTC CCCAAATNAA TTCCTGATTT N 341

## (2) INFORMATION FOR SEQ ID NO: 7201:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 110
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08440

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7201:

GATCTNCTAC AGTTCCTNCA AGCCTAGACA ACCTAAGAAA CTTTACTATC AGCAGCTTAA 60  
 GATGAAAATC ACAGACTTTA AGAACAGGCG AAGTTTTAAN TGTATATNNN 110

## (2) INFORMATION FOR SEQ ID NO: 7202:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 45
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08441  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7202:  
 GATCCAAAGA AATAATCCAA AATAAAAAGT TATATCCAAG ATAAA 45

(2) INFORMATION FOR SEQ ID NO: 7203:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 202  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08442  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7203:  
 GATCCACAGT GGAGTTTTAG TAATTATATT TTNTTGATTT CTTCAATTTG TTTTCTGGTA 60  
 TAAAAGTAGA GATAATGTGT AGTCACTTCT AATTTAGTGA AACCAATTGT AATAATTNTG 120  
 GAAATATTTT GTCTTTAAGT GTAAATATTT AAAAATTTGG CATACCCTAA TGTNAATAAT 180  
 AAAAAGAAGT ATTTGCAGAA AA 202

(2) INFORMATION FOR SEQ ID NO: 7204:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 337  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08443  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7204:  
 GATCGGAAAA CTCTGATTGA ACCATTCCTT TTATTAGCCA GTAAACTTTC TCAACCCCAG 60  
 AGCAAATCAA GCTTTCCTTT GCCTGGGAGG AAAANCATAG GGAACCTCTAA TTCTGAGAAC 120  
 TAAAAATCAG TAATTTCCAC AATTGTATGT TGAATAGTGA TTGCCTTTAN GNGNCTGTGN 180  
 NCATGGAGTA ATATTACTAT TAAAATAGG CCATTTGTAT CTACCTTTGG TCCTTAGGAA 240  
 AATTCCTAAG GAAGTCAATT AATGCACTTT NAGATGTTAA AAGTATTTGG GCTAAGGTTA 300  
 TTATTGCCTG ATATGGAAAT AATTATNNTT CTGNTTN 337

(2) INFORMATION FOR SEQ ID NO: 7205:  
 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 351  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear  
 (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08444  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7205:  
 GATCAGTGAC AATTTACAGG AATGTAGCAG CGATGGAATT CCCTGGAACA GTTTTTTGTT 60  
 TTTNTTTTTT TTTTGTGTTT TGTGGGGGGG GGCAACTAAA CAAACACAAA GTATTCTGTG 120  
 TCAGGTATTG GGCTGGACAG GGAAGTTGTG TGTGGGGTG GTTTTTTCT CTATTTTTTT 180

GTTTGTTCCT TGTTCCTTAA TAATGTTTAC AATCTGCCTC AATCACTTTG TCTTTTANAA 240  
 NGNTTCCACC TGCAGTCCCTN TCTCCTCCCC CCTACTCAGG CCCTTGAGGC TATAGGGGGT 300  
 TNCTTNGAGG ACCTCANCAA AATCCCAATC CAAGTNAACC TTTTGCACAN N 351

(2) INFORMATION FOR SEQ ID NO: 7206:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 273
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE; HUMGS08445

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7206:

GATCTATTTT TTTAAAAGAT ATTTGTGCAG AAAGTGCATG TAACTCTAAG TTTTACTCCT 60  
 AACATACATA TGTTCGGGGA AGTATTCTAT TCTATACTTG CCAATGTGGA GAACAAAATA 120  
 GTTTTTTTTAA GAATGAAGAA GTATATATAT CCATTCTGTA TTTTACGTGC AGCAGAATTA 180  
 TCTTCCGTAG GATTTTTTTT TGTATTACACA AGGTGATATT TGTATTGTAA AACATAATG 240  
 GTGAAGGAAA TAAAAAGGCT TTTAAAATTT AAA 273

(2) INFORMATION FOR SEQ ID NO: 7207:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 328
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08446

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7207:

GATCAGATTT TTAATAAATG GATTTCTCAT ATAAATAATA TTATCAAAAA AGGATTTCTC 60  
 ATATAAATAA TATTATCAAA AAAGCTGATT TTAATAAGTTT CTCCCAAAGT CTTATTCTAG 120  
 TAATTATAGA GACCTAGGTA ATGAGTGGCA GATATATCTG CCTTTCAGAT ATGCCGTAAT 180  
 GTGAAAAATA ACACAGTCAT GTGATATTCT TNATTAACATA AAAGTGTGTT GTTTTTATTT 240  
 TGGAGTAGTT CTCATAATTC ATTGGTAGGG AACTATCCAG TATTTATATT CCTATGTATG 300  
 TNTATCAGNT TAATTTTGAG GCTTGAGN 328

(2) INFORMATION FOR SEQ ID NO: 7208:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 145
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08447

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7208:

GATCTGTACA TACAGTGTTA AGAATGTAGA TATTAATAAT GTTATATTTA GCTGTTACAT 60  
 AATATTAAGA CTCAGAGTTA AGTAATTTCA CTGAAATTGA TTGCTTTTTG TGTCTTGGAG 120  
 TCAAAATAAA TAACTGAAAT CTAAT 145

## (2) INFORMATION FOR SEQ ID NO: 7209:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 227
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08448

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7209:

```
GATCTGTTNA CATAAGCACT AGTCACAGGA CTACTCGTGA ATTCATCAA TTTATTCTAT 60
TGTGTTTATT CATGATATCA CCTTAGTAAT TTTTGAAAAA AAAAANGTAC CACACTTGGC 120
CAAANGCTCA TCAGGCTGAT TGTTTANCTG TNGCTGATTG CTTATCTTTA TATTGTATGA 180
CCCNNGGGGNT NGNTTTGAAN GTTATATTAG GTTTGAAATG ANTTATN 227
```

## (2) INFORMATION FOR SEQ ID NO: 7210:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 333
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08449

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7210:

```
GATCTTTGAA CTCTGCAATA TGAAGCATAT ATGTGAGTGC TTAGCTTTCA CTCTCTTCT 60
GTGTGTGTGT GTGTGTATAC AGATACTAAG ACACAGATAC ATTCACATAT ATACATCTAA 120
ATATATATAC AGTACAGTCC ATATTCAGAT TTCTTCAAGG TTATGGGTCT ATTGTTTAA 180
TTCGGAATCC AGTCAAGGAC AACACATTAA AATTGATTGT TTTGCCTCTA CAGTGTGTTT 240
TTTTGGTTTT CATGACATTG ACTTTGATTT GAATAGGTCA GACCATTTC TGTACTTTAT 300
ANAGGCACTT TGTAGATTG TCTGATGATT TGN 333
```

## (2) INFORMATION FOR SEQ ID NO: 7211:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 151
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08450

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7211:

```
GATCAAGAGA GTTCGATTGG CCAAAGAACA GGAATCCCGG GCAGATTGTA TCAGTGAGTT 60
TATAGAATGG CAGTATAATG ACAATAACAC TTCTCATTGT TTTAACAAAA TGACCAATCT 120
GAAATTAGAG GATGCAAGGA GAGAAAAGAA A 151
```

## (2) INFORMATION FOR SEQ ID NO: 7212:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 275
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08451

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7212:

```
GATCTGACAG ACGTCAATAC CTGCAGGCGT CTACAGAGAG GAAATTTGAT AAAAATATTT 60
TAGTCACTGA CTACACTACC ATTATCTGAA GCATTCAGAT AAGACTTAGC AGAGAATGTC 120
AGATTTTGTT TTCAATTATA ATTTTAGAAA TGCAAAATCT TATTTTTTCT AAGTTGCTTA 180
TTGTCTATAT AAATGTTTTA TATCATTTAA AAACATGCAG AATAATACAC CTGCAGAATA 240
AAAGAGCTGA AATTAAATA TCTTTTTCAT TNAAT 275
```

(2) INFORMATION FOR SEQ ID NO: 7213:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 103

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08452

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7213:

```
GATCACTTGA GTCCAGGAGT TTGGTGTTAC AGTGAGCTAT GATGGCACCA CTGCACTCCA 60
GCCTGGGCCA CAGAGTAAGA ACATGTCTTT AAGAAAAAAA AAN 103
```

(2) INFORMATION FOR SEQ ID NO: 7214:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 144

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08453

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7214:

```
GATCTGTAGA CATGAAGGCA AAGCTCTTGT ATTTTTTTTT CATCCAAACA CCTCAATTTA 60
TTTTATAAAT TCGTTCATT TTCCTGTTAT GTTTTATATA ATATATGGAC TAAACAAAAT 120
AAAATAACAG TGCAAAAGAG GAAA 144
```

(2) INFORMATION FOR SEQ ID NO: 7215:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 164

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08454

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7215:

```
GATCAGAAGA GGATGACAAT GGCAACAAGT GTTTGGAAGT TCCAAGGTGT GTTCAAAGAG 60
GCTTGCCTTG AGGGAGGGCT GGAATCTGTC TTCCCTGACT CGGCTCCTCA GGTCTTTAGC 120
```



CTCCACCTTG TCTAAGCTTT GGTCTATAAA GTGCGCTACA GAAA

164

## (2) INFORMATION FOR SEQ ID NO: 7216:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 332
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08455

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7216:

```

GATCTGAAGT CCCCCCAACC CTCTCCAAGT AAAGTAGTTT ATTAGAAGCT CTTAAGTCTT 60
TAATAGACCT GCATATTTCC TTCCCTTATG ATTTCTATA AAATATAGTT TATGGTGTTA 120
TATTTTAAAC TGAAATACTG TACATATGTA AATAACTCTT GACAGGAAGA AAATATATTA 180
ATGTAGTATT TGCCCCCTAT CAGTGAGCTG AACAAATACA TCATTAAAT CTATGCTGCA 240
CTTTGAGTTG CTACAAATAT GGTTCGNTTT GTTTATTTT GAAAAATGTG ATAAAGAAAT 300
CTAAAGANTG NNNNAANTAA NNNNNNNNG NN 332

```

## (2) INFORMATION FOR SEQ ID NO: 7217:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 277
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08456

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7217:

```

GATCTGTACC ATCCTGTTGC TGCTGTATGC GTTCATTGA TGGGACATCT TCAGGGACTC 60
TTGACAGCCA CCGCTTTCAC ACCCTGGTCT GGAATAAGGA AACATCGGAG GGAGAAGTTG 120
ACTGTCTTGA TAATTAGCCT GACCAGCAGG ATGAATGCAA GACTGACAGT GATGGACTCT 180
GTGACATGGT CAGGTTGAGC TGAAGCCACA GTTCTCTGT GCTGTGTTTT CTAACACATT 240
TTTCTGTTTT TAATTAAAAA AANNNNNNNA GGGTAAA 277

```

## (2) INFORMATION FOR SEQ ID NO: 7218:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 198
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08457

## (ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7218:

```

GATCTTAAAC TCCTGACCTC AAGCAGTCTA CCCCCGTTGG CCTCCCAAAG TGCTGGGATT 60
ACAGGTGTGA GCCACTGCAC CCAGCCAAGT TTATGTATTT TNATTCTTTT TCATGAATGT 120
GATTTGTAA ATNAGTGATT AAATATAATT TTNATATATT TGTATGACTT TNCTGTAAAT 180
AAAAATTAAA ATCAGAAA 198

```

## (2) INFORMATION FOR SEQ ID NO: 7219:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 409  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08458
- (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7219:
- ```
GATCTGCATC TNACGCCCAC TGCACACCGT TCCTCTCCAT CTGCCCTTCC CTCCCAGGCC 60
CCCGGTCTGGG GGAGCAGGTG TGGCAAGTGT TAGGAACTCC CTTCTGGTGA CAGCTGGTCT 120
TCCTAGAGTG TTGCTGGTAA CTATCGCCTC TTGGTCTTCT GACATCATTG CCAGGAACGG 180
GGCACTTTTT CGTCTTGTAG TTTGGCCCTC GGGTTTCCTC ACTAGGTATT GTGTAAGTCC 240
CTCAAAAAAA GGTATATGAA ATGCTGAACC TCAGGTTTCA TAGACGTCTT TGTACACTAA 300
AAATTCTGCA GCAGGAATAT TTTTAAACAT TCGCAGTTTT TTGTAAGCTA TATTTTTTGG 360
ATATTTAAAT TGCTATNTNA AAANTTTTAA ANTNATTTTT GCTAATNNN 409
```
- (2) INFORMATION FOR SEQ ID NO: 7220:
- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 87
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08459
- (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7220:
- ```
GATCTCCTGT TCCGTTAGAA ATACGGTTAT GTTGACATTA TGGTTACTGT GCTTGTGGTT 60
TTGCAATAAA CATGTATTGA AAGCAAA 87
```
- (2) INFORMATION FOR SEQ ID NO: 7221:
- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 130  
 (B) TYPE: nucleic acid  
 (C) STRANDNESS: single  
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:  
 (B) CLONE: HUMGS08460
- (ix) FEATURE:  
 (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7221:
- ```
GATCAGATAA AATAACTCCT GACAGAAACT GTNNGGAAAC CAGCTGAATG TTTGACCTGA 60
TGAATGATGT TGTATGGTTT ATGTTAAATG TATATTCTTT TAATCAATGA ATAAAGCATT 120
AAAAATGAAA 130
```
- (2) INFORMATION FOR SEQ ID NO: 7222:
- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 251
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08461

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7222:

```
GATCAGAAAC ATTTACAATC TATTCTCTTT GAAGCCTGGC ACCTGGAGGC GTCATCTGTA 60
TGAGANNNNN GGACTCCACA ACCTTTTATC ATAACCCAGA CATTCTTTC TATTGATAAT 120
AACCAATTGC CAATCAGAAA AATTAAAAAT CTACTTATAA CCCAGAAGCA CTACCCCGCA 180
ACCCTTGCTT GCTTCAAATT GTTCCAACCT TCTGGACCGA ACCAATGTAT AGCTTAAATG 240
TATTGATTG N 251
```

(2) INFORMATION FOR SEQ ID NO: 7223:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 189
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08462

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7223:

```
GATCGGTGCC ATGGCAAGCA CACCCTCAGT CATCATCCTC ATCAGGACAG NCAGCCNNGA 60
ACTCAAGTCT TACGCTTTGG GAGTTCTTTT TCTCNTCCTT CGTTTGTGG GCTTCATCCC 120
NCCACCCCTC ATCTTCGGGG CTGGCATCGA CTCCACCTGC CTGTTCTGGA GCACGNNNTG 180
TGGGNGAGN 189
```

(2) INFORMATION FOR SEQ ID NO: 7224:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 97
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08463

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7224:

```
GATCTGATTT GGCCTGGGAC CAGTGTTCAG GTTGTTTGG TCTTTATTAA AAATCACAAT 60
ATTCCGAAAA CAAAAAACC TAGGAGATAA ATGTAAA 97
```

(2) INFORMATION FOR SEQ ID NO: 7225:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 255
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08464

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7225:

```
GATCTGAAAT NAGAGGTTTT GGTTTACCCT ATCTATGGTA TGTCTTAAAA ATCAACGAAG 60
ATGTCCTTGT CTTTTTTNAA TTNCCGAGT GTGTTGCAGT TCCACAGCTC ACTGTTAGGT 120
GGCACATACC CCAAACCTGAA AACCTGACCT CGTAGGGCAT GAGTCAAAAG ACAGGTAGGC 180
```

ACAGGACAGG GCAGTGGTGA CACTACAGCT TTCAGGGTTC CCAGCCTGTC AAGAATGAGC 240
 ATGTCTTAGC AGGGN . 255

(2) INFORMATION FOR SEQ ID NO: 7226:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 63
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08465

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7226:

GATCAAATTT GGAAAACCTA ACATTGAGAC AATACTATAT TAAAGTATCT CTGGTACCCG 60
 AAA 63

(2) INFORMATION FOR SEQ ID NO: 7227:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 55
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08466

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7227:

GATCCAGCAA TCTCACTGAG TATCTAACCA AAGGAAAATA AATCACTATA CCAAA 55

(2) INFORMATION FOR SEQ ID NO: 7228:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 220
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08467

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7228:

GATCCAAGAA CCCTCTCTTG GGGTCTGAAT CATACCCCTT TCGGGTTACA GCCTATCACA 60
 GCATTTTAA TCCTATGCAC TTAACACTTC TGTATAGAAA AAGAACATCA CACTAGAATT 120
 TTGATGACAA TAGATGACAA TATGATGAAT NTTATTATAT GAAGTGTTAA ACTTATTAGA 180
 GCAGATATGG TACTAAAAAT AAAATCCAC CTNCNCTAAA 220

(2) INFORMATION FOR SEQ ID NO: 7229:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 114
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08468

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7229:

GATCGCGCCA TTCCACTCCA GCCTACACGA CAGAGTGAGA CTCCATCTCG AAACAAAAAA 60
 AAGACTTGAT TTTTATTTTC ACTATCTTTA GCATAAATTG TTCTAAGAGT GAAA 114

(2) INFORMATION FOR SEQ ID NO: 7230:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 274
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08469

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7230:

GATCTTATAC AGAGAAGTAT TTTATTAAAA ATTCAAAGG GAAGACTTTT ATGTGCTCAT 60
 TTTGTAATTT TTAATTTTAA ATATCTTTAC ATTGTCTGCC AATTAAAGTG TTTTAACTT 120
 GCATTGGAAT GGNCTCTGAA TGTATTTNTN TGGTGTNACG TTATCCGTAG ATTTCTAGCA 180
 TGANGTTAGC CTCACGATGC TGTGCAAAGG ATTTTNAAT ATGAGAGTCA CTGANAGAGT 240
 TTAANCATCT GTCCATGTTA AATGCTCTAT GGGN 274

(2) INFORMATION FOR SEQ ID NO: 7231:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 135
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08470

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7231:

GATCCTTTGT TCACGGCTCT CCTTAATGAC TGAGTGAACA GTTCTATCT GTATATTTGA 60
 CTAAACCTTT TCCTAAGCTA TCTCTCATGG TTCCTATGTT TTTTATCAT AATTAAAGC 120
 AAAACCATCT GGAAA 135

(2) INFORMATION FOR SEQ ID NO: 7232:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 238
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08471

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7232:

GATCGAGCGG AAAATTCCAG AACTGTACAA GCCAATATTC AGAGTTGAGA GTCAAAAGAG 60
 AACATTGTGC TGTCTGTCAG CATATGTATA TCAGCTACAA AATATATTCA ACTTTGACTT 120
 CTTTGTACAA AGGACTTTAG GAAAAAGAGG AACAAAGACA TTATTTGAGA ATTAAATTAT 180
 ATATTTTAAN TATGACTGTG ACCTTGACTG ATAATAAAGA TGTAATAAGA NTTGCAAA 238

(2) INFORMATION FOR SEQ ID NO: 7233:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 71
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08472

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7233:

GATCAGTTCA GCCAAGCAAC TGACAAATCA AAAACCCACT TGTCAGTTCN GTAAAATAAT 60
 TTGGTCAGAA A 71

(2) INFORMATION FOR SEQ ID NO: 7234:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 347
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08473

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7234:

GATCTAGAGG GCTTCGAGTG AAGCCAATCA TGTTGAACGA AACTGGGTTT AGTGTAGATG 60
 AANTAGAGTG AGGCGTATGC AGTCATAAAA TGAAGGGTGG ACAGGAGATT ACATTTGAAG 120
 AAAGGATAAG CACTCAGACT TGGTCTCTTT TAAATTAAAA TATTTCTTTT CTCATGTGCA 180
 AATGTATATC AAAGACTTGA ACAGGTATTC TCTTGAAATT TGAGGATTTT TAGTTTTTAA 240
 TGCTGNCTTT GCTTANNATT AANNATGNGT NGCCTATTGG TTCCCAAATT GTNTGGGGNC 300
 CCTAANNGTT NCCCCTNGAG GGGTNCATTT TTGAAGGNGG GTTANGN 347

(2) INFORMATION FOR SEQ ID NO: 7235:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 93
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08474

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7235:

GATCTTGTGT TTTGCTATCC TTTTACTGT AAAATGTAAA TATTTTAAGG GATATTTTGA 60
 TTCTAAATAT GATAAAATAA TTTCTCACCT AAA 93

(2) INFORMATION FOR SEQ ID NO: 7236:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 417
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08475

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7236:

```

GATCCCAATT CAACTTATCC AGAATAATTC TCTCCATTCT CAAAATTTCA NATGAGGAAC 60
ATNNNNAGAA ACTGTCTCTT GCCAATACCT TTAGTACTGG AATTCTCTCA TCTTCCTCAA 120
CAGTCTTGGC AGCTAGGAAA AAACAGCTGA TTGCAATACA ACTCAAGTAT TTTGGATGAG 180
CCTTTACGGT AGCTAAAAAC CCATCCAAAA GACTGCTAGC CAGAGCAAAT GTTTCTGGGT 240
AAAGGTTGAA TTGGTACTTG AGTTTGGCCA GCCATTGANT TACTTCATCT CTCTGGGATG 300
GNGAACATTC TGATTTGAAG GCATTTTCCG CACATTCACT TTCCACATCT GTGNCTCCCT 360
AGTGATTGCC TTTTCCACCA GGAANGCCAA TCTCTGGTTT TCCAAAGGCC CTNGGAN 417

```

(2) INFORMATION FOR SEQ ID NO: 7237:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      80
(B) TYPE:        nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08476

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7237:

```

GATCAGACCC TCCTGTGGGC AGGGTTCTTA GTGGATGAGT TACTGGGAAG AATCAGAGAT 60
AAAAACCAAC CCAAATCAAA                                     80

```

(2) INFORMATION FOR SEQ ID NO: 7238:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      409
(B) TYPE:        nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08477

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7238:

```

GATCTGCCTG CCTCGGCCCTC CCAAAGTGCT GGGATTACAG GCGTGAGCAT TTGCGCCTGG 60
CCAGAAAAAT ACCTTTAAAA AGCTGGGCCT GTTGGTGTAC CTAAAGGATA ATACAGATGT 120
TCCTCTCAAC TTAGCATGGG GGTGTGTCT CAATAAACCC ATTTTAAAGT TGAAANCGTT 180
ATGTGGAAAA TGCATTTTAT TATACCTAAC CTACTAGACC TCGTAGTTTA GCCTCCCTTA 240
CCCTACAGGT GCTCAGAACA CTTTNGNAGG CCCTACAGTT NGGGCAGTCA TCTAACACAA 300
AACCTATTTT ATAGGTAAAA GTNGTTTGAA TATCTCAAAG NTAATTTATT TGAATGGTTN 360
CCAATTGAAT NGCGGANTCN ANGTGTTTNN NAACCNGTNT GGTNNANNN 409

```

(2) INFORMATION FOR SEQ ID NO: 7239:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      123
(B) TYPE:        nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08478

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7239:
 GATCTCATAG ACTTAGTACA AAAAAAGGTG AAATGTCTTG ATATTTTTGT ATATTGATTA 60
 TTGAAATAAC CTTTATGTT GGGCTAAATA CAAATATGTT ATTAAAATNA ATTTAACAAC 120
 AAA 123

(2) INFORMATION FOR SEQ ID NO: 7240:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 265
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08479

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7240:
 GATCTGAGGG GGAGAGGGAC GGGTCGGGCC AGCTGGTCAG GAAGGGCCTT GAGGGCCTGC 60
 AGCCAAGAGT AGCAGTTTTT TCCCCGTCT TGTGTCTT GGTCCCTGGA CCACAGGGCA 120
 CACAGGCCTG GACACCATAA GGCTGGTGGG CTTTCAGAAT TGTGTTAGGG NNNNNNGAGT 180
 GGCAGGTTCC TGAATCTCGG TCAATATAGT AACCAGCAGG ACAAGAGGTT CAGGAGGAGC 240
 CCACATCAGA GGCTTCTAGG GCAAN 265

(2) INFORMATION FOR SEQ ID NO: 7241:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 265
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08480

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7241:
 GATCTCTTGA ATTGCCATCT GTCATCTAAG TCTAAGGCTT TATGCTTAAT GANTTGTGGT 60
 GTACTAGCTG GACTAGCTTC AGGAATGTCA GTGTGTCTA CCATTAAGGT CAGATTGTCT 120
 ACTACATCGA GATGGTGGTT GTAGTTACAG CTACTTTTAG AAACATGTCT ATTTTTTAAA 180
 GACATAACAC ATGAATGAAG AAATTCAGAA TTTGGAAAAA AGGTCCGTAA TGCCTGACAA 240
 AGAAAAATGT TCTCCTGAGG GTCTN 265

(2) INFORMATION FOR SEQ ID NO: 7242:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 138
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08481

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7242:
 GATCCCAGCA CCTTCACATC TTCAGCAACC CAGNNGNTCA AATTTGACCT GGTGTTATTT 60
 TAGCCCCAAA TTTATGACAT TACACAATAT TAAAATGTAA ATGTTTCTTC ACCCAAACCTA 120
 CTTCTAGATA TNCTNGNN 138

(2) INFORMATION FOR SEQ ID NO: 7243:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 273
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08482

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7243:

```
GATCCTTTGA GAGATGGTTT GACTTTCCCC GAGCAAAGAG CCTGCGTTGA AAAGCGGGGG 60
TGGAATTCAG TCCTCACAGA TAATGAGGGG ACAANACCTA ATTGANCCGN GTATTGCCGG 120
GAAGGAAAAG GCAACGGGCC AAGCCTTTGA CAGGGTGCGA AACTGACTTT NATCATCGTT 180
ATAGTCTTTA AATCCTGGGA AACGAGTTGG CAACCCAAA ATAAAGAAGT GTAATGACGT 240
CTGATGACTT CACCCAAATA CAGACCATTC CAN 273
```

(2) INFORMATION FOR SEQ ID NO: 7244:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 132
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08483

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7244:

```
GATCTATAAA ACAGACAGAG ATAAGTACAA CAGAATATCT CGGGAATGGA CTCAGAAGTA 60
TGCCATGTGA TGCTACCTTA AAGTCAGAAT AACCTGCATT ATAGCTGGAA TAACTTTAA 120
ATTACTGTAA AA 132
```

(2) INFORMATION FOR SEQ ID NO: 7245:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 321
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08484

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7245:

```
GATCCGCCTG CTTGAGCCTC CCAAAGTGCT GGGATTAGAG GCGTGAGCAT TCATGTCCAG 60
CCAGCACTGT GCTGTTTTTG ACATGCATGT TCTCATT CAN TGCCATGCGG CAGATTCTAG 120
GATTATNATT ATNCTCACTT TACAGATGAG GGAGTGAGAC TTAAAGGGGT TAGGTAATTT 180
GCCACATCC CCCAACTAGC AAATGGTAGA GCCAGGATTG GAATTTGTTC AGGCTCTTAA 240
CCATTGCACT CTTTCAAAAT GTTAAAAATA ATGTTGTGTC TCATTTTAAA AAATTAAATA 300
AAANCTCTTT GGACCAAGAA A 321
```

(2) INFORMATION FOR SEQ ID NO: 7246:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 108
- (B) TYPE: nucleic acid

(C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08485
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7246:
 GATCTCCCCA TTTGGAGACA GAGCCATTTG GATATTTNCC CCTTNAACTT CTCCANNNCC 60
 TGAAGCGTTC CTTCCCTGGA GGAACCTCTTT GGTTCAGGG CTAAACTN 108

(2) INFORMATION FOR SEQ ID NO: 7247:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 139
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08486
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7247:
 GATCTCAGCT CAAATATTCC TTATGCAGAG ATGCCTTCCC CTGATTCCCT AAAC TAGACT 60
 CGGACCCCTC TGTTC TGCAT CTCTGTGGCA TATCATCTGC CCCTTTTGTA AAAC TTATAA 120
 ACTTGTGGTT ACTTG TAAA 139

(2) INFORMATION FOR SEQ ID NO: 7248:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 244
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08487
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7248:
 GATCATGTGA GCTCAGGAGT TCGAGACCAG CCTGGGCAAC ACAGCAAGAC CCTGTCTCTA 60
 TTTTATTCTA TGTTTTTAAAA TTAAAAAATT AAAAAGAAAA AAGAATAACA TTTTATAAGA 120
 AAATATTTTA TGAGAGACTT ATAAAAGAGA CATTAGAAT ATGAAGTAAT ATATTNCGTA 180
 TTCCTTATCT CAATAATGCT GTAGGGAAAA ANCAATTGAA ATAAAAGCAG TAAATGAGTG 240
 GAAA 244

(2) INFORMATION FOR SEQ ID NO: 7249:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 155
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08488
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7249:
 GATCTAACTT GCAGTGTATT TTCTAGGCTG GAAAGTGGAA AATNAAATAT ATTATAATCT 60

TAGGTTACAT AAAGTTTCTA AAGTTTCAAA GAGTCTTGAT ACAAATCAG TTTATATTCT 120
 GAAAATATTT ATAATAAAGT ATTCTAATTT CTAAA 155

(2) INFORMATION FOR SEQ ID NO: 7250:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 96
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08489

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7250:

GATCGCACTG GAAGATTTTA TAAAGAATT TTTGTGGGTC GGGGGGACAG TAAACTTCCT 60
 GGGCCACGTG GGTCTTCAG GAGTTTTTCA GGCAA 96

(2) INFORMATION FOR SEQ ID NO: 7251:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 118
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08490

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7251:

GATCTNATAT TGAACCCTAT GCCAATAGC GTGGCATGAG GCCAGAGAAC AGTGCTTNCC 60
 TTCCCCGCT CCACCAAAT TGTCCCTTGC TCTNGATATT ATGCCAGTNC CATATTTN 118

(2) INFORMATION FOR SEQ ID NO: 7252:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 391
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08491

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7252:

GATCTGGAAA CTATTTGGNT TTTNTTTTCA ACTTTTCATT TGGATGTTTG GCGTTGCACA 60
 CACACATCCA CCGGTGGAAG AGACGCCCCG TGAAAACACC TGTTTGCTTT CTAAGCCAGT 120
 GAGGTTGAGG TGAGAGGTTT GCCAGAGTTT GTNTACCTCT GGGTATCCCT TTGTNTGGGA 180
 TAAAAAAAAT CAAACCAGAA GGCGGGATGG AATGGATGCA CCGCAAATAA TGCATTTTCCT 240
 GAGTTTNCCT GTTAAAAAAA ANTTTTTTTA AGTAAGAAAA AAAAAGGTAA TANCATGGCC 300
 AATTTGTTAC ATAAAATGNC TTTCTGTGTA TANNTTATTC CTAAANATC CTGTTTATAT 360
 AANNNTTCAG TAGNTGGAGA AACTTTCCAT N 391

(2) INFORMATION FOR SEQ ID NO: 7253:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 385
- (B) TYPE: nucleic acid

(C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08492
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7253:

```

GATCATGAAT CTCTAATAAA TTTAAATCTC TTAAACCAGT AGGTGCTTAA TATTTTTTTAA 60
TTTGATTAAT GCCCATTTAA ATCTCATGGG TTCTATTAAA AATATATATA TATAGGGCCC 120
CAATCCATTG CCATCAAATT GCCCTTGGAC TTTTCCAAGG TATATTATGG GGTTTTATGC 180
AAAATTCCAA GCTACCATGT AACTTTTTTN AACCATTTAA CAAGGAGGGG GAACTGTTTC 240
CTACCTTCTT TACATGTTGT GCATTGTTGT GGTCCAGAAA TGCCAAACCT TTTTAAAGAT 300
GGTGCAACTT TGAGTCCTTG GCTTGACTAT ACAGGNCTTG AACTTCATGG CATATCAACT 360
TTGNCATATC TGCAGGTGNG CTGTN 385
  
```

(2) INFORMATION FOR SEQ ID NO: 7254:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 414
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08493

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7254:

```

GATCACCATT TTTTTCCAGG CTTTCTGCCT CCNAGATGTG GCACCATAGT GCGGTGCCCT 60
GTGGCTTCAC CGCCCTACTT CCACCTCCGC CCAGCCTGTA ATGTTTATAT AAGCAGCCTC 120
AAGGACCAAG AACCATCTGC GAAAGGACAC ACACAGGAAA TTCATAAAAG AAATCTGANT 180
GGNTAAAACC ATGAAAAAAA GTATGCTTCA TTAGTAATTA AAGAAAGGCA AATAGAGCTG 240
GAAGCNTTTT NCCNTTNGCA AACCATAACA GAAAANNNTA NGACCCAATA TTGGCAAAGA 300
GACTACTGAA ANCCATTCC CATACTTGC GTGTGGNGT ATACATCGGT GCAGGCTTCC 360
TGGATGACAG TTGGGTGATA TGTGTCATGT GGCCTAANAG CCTCCATGTC ANT 414
  
```

(2) INFORMATION FOR SEQ ID NO: 7255:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 207
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08494

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7255:

```

GATCCTGGTT TTGTGATTGA CAATATTTCA TGCTCTGTAG TGAGAGGAGA TTTCCGAAAC 60
TCTGTTGCTA GTTCATTCTG CAGCAAATAA TTATNATGTC TGATGTTGAC TCATTGCAGT 120
TTAAACATTT CTNCTTGTTT GCATCTTAGT AGAAATGGAA AATAACCACT CCTGGTCGTC 180
TTTTCATAAA TTTNCATATT TTTGAAA 207
  
```

(2) INFORMATION FOR SEQ ID NO: 7256:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 412
 (B) TYPE: nucleic acid

(C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08495
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7256:
 GATCAAGAGT ACACTTCCTG GCAGTGATTA AGGAGTGTGT ATCTAACAGA AAAAATATAT 60
 ATACCCTGTG AACCCGAATA TGGAATTCAG ATTGTTTCTG CCCTCAGTAT CATACTTAAA 120
 AAACAAGCAT ACAAACAAAC ATAAGGGAAC AAACAGCAAC CATAACAAAA ACAAACCTTT 180
 AAAGGTGGGT TTTTGCTGTG ATAAATGAAT ACGGTACTCT GAAGGAGAAA AAAGTTTCTC 240
 AAATGAGCTT AAAGTCAAG TGATTTAAAA NTTAGAGAAT ATAATTCTTA ANGCTATTGA 300
 AAGTTTCAAC CAGAAAACCT CANGTGAATT TTGTATGTAA ATGGCATCTT GNNTGTAAGT 360
 TCTGTGNTTC TTTAGGCAAC CAATTAGCTG GAACCTTGGT TTTGTGTGGT TN 412

(2) INFORMATION FOR SEQ ID NO: 7257:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 406
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08496
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7257:
 GATCTGCAAA TCAAGCTACA TGTATTTGTG TATAAGACCC TGTGTTTCAGG ACTGGGTGAC 60
 TTTTCTAAGA AATATGGGGT TTAGAATGGG GTTGACTGTA TTTNTAAACC TAATTCTGGA 120
 GAGAAGATTG TATTNTAAC AGTTTTTTGG GTTTGGCTTC CTTCTCACAT TTCTTTAGCT 180
 TTGAATTTTT ACTAAATAAA TTTCTCCTG ATTAATTTTT TTTTCCCCCA TCTGGGAATT 240
 TGAAATCTCG GTGCTTACTG TNACACCAAT TTGTCCAANG GGTTGAAATC ACTTTAATGC 300
 CAGACCATGG TAATTTGCAG CCATTTTCAGG CAGGTGGTGG NCCTTTTTTNA TACCATCGTT 360
 ACGGGGTCCC NTTAAATATT CTGGGGGGTG ATGTAAATNT AACGGN 406

(2) INFORMATION FOR SEQ ID NO: 7258:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 116
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08497
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7258:
 GATCTCCATT TCCGCCAGCT GCCTGTAGCC ACGTGGCATC CTGCCTGTGG TCTGGGTGAG 60
 ATTTACTGTG ACCAGATGTA GAATAAATGT GTCTCATCCT GCATTTTTTT TCTAAA 116

(2) INFORMATION FOR SEQ ID NO: 7259:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 435
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08498

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7259:

```

GATCACTTTT TAGTTAGTTT GAAACCTGCT TTTAGTTTAT ATGTAGTATT TCTACATATT 60
GTTACTTAAA TTGAACTAAC AATTTACTTT TNAATTTTNC TTCTTCCTTT TAAAAAAGA 120
GTATATAATC TGACAATGTT AGTACATCTT TTAGAAGGTC ACTATAAAGT TGCTTCCCT 180
ATTTATTTGG AAAGGATTAT TTCCTTATNA TTTTAAAAA TCTTTTAATT NNTGTCTTNT 240
CAAGTAATTT TATCATTGTA CCAAGCCTAA GGATGAGTGG CAATTTAAAA GNCACAAGGT 300
GTGCATCTTC TATCTGCAA TACTCCAAAC AGAANTTATT CCAGTTTGTT GATACTTTGA 360
GTGGCCCAGG GAAAATGTGT ATGGTTTTAG TGTNCTGAAT TGNCATTCCA AAGGGTGC GG 420
AAGGTTNCTG TTAAA 435

```

(2) INFORMATION FOR SEQ ID NO: 7260:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 62
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08499

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7260:

```

GATCAAAAAA GGAATGGATA TACAAAGTGT TTTGTGAAAT AAAAGCTCCC TAAAATGGTA 60
AA 62

```

(2) INFORMATION FOR SEQ ID NO: 7261:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 389
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08500

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7261:

```

GATCGCACCA CTGCACTCCA GCCTGGGCGA CAGAACGAGA CCCTGTCTCC AAAGGAAAAA 60
CAAAAAAGAA GAATAAAATA ATTTGGATGA AAATCATGTT TATTTAAATA GTAATGTCAT 120
GAGACTATTA AAGATGTGCC AGAGTTTCAA TGAAAATCAT TAAAGTAGGA CAGCTAAGAA 180
ATTAATATTA ATATCAAANT TATTGATANT CTAAATTAT TGATTATTCC TTAACGCACT 240
CCATTCTCCT TTTACATTTT ATCATGTTTC TTTTGAATAT ATGANTTGGC AAAGGCCTTG 300
ATGAAACTGA GTACTAAGAT TTGGTCCAGN GTATGTCAGG ANGNCACCTC AGATTGCCAT 360
TTTAAATAAN GTTGTNCAATG ACCAATAAA 389

```

(2) INFORMATION FOR SEQ ID NO: 7262:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 302
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear.

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08501

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7262:

```
GATCCCGTGC TACATCTCCT CCCCGGACGA GTGCCTCTGG ATGGACTGGG TCACAGAGAA 60
GAACATCAAC GGGCACCAGG CCAAGTTCTT CGCCTGNATC AAGAGAAGTG ACGGCTCCTG 120
TGCGTGGTAC CGCGGCGCGN CGCCNCCCAA GCAGGAGTTT CTCGACATCG AGGACCCATA 180
AGCAGGCCTC CAACGCCCTT GTGGCCAACT GCAAAAAAAG CCTCCAAGGG TTTCGACTGG 240
TCCAGCTCTG ACATCCCTTC CTGGAAACAG CATGAATAAA AACTCATCC CATGGGTCCA 300
AA 302
```

(2) INFORMATION FOR SEQ ID NO: 7263:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 297
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08502

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7263:

```
GATCGGAAGG TGGTGAATCT TTCCAGAGCA GCTGAAATN TCAGCATGGA GACAGTAAGA 60
AAAGAGACGG GGTGTGGATA AGACTCTGCC ACCGTGTCAC ACTAGCATAG GAGGCTGCAC 120
GTTCAATTTGT TGTGTTTTT TTTTCCTTTG CCAACCTCCG TTCTATTTAT GTGCAAGCAG 180
TTTGGATTCA AGTTCCTGTA TCTGTCTGTT CTGGGACCTG GGGATTGTNA GGGTTCCCTC 240
ACAGCCAGCA CGACCCCCAG AAAGAGGCGT CCCACAATAA ACACGTCACC TGCTAAA 297
```

(2) INFORMATION FOR SEQ ID NO: 7264:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 116
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08503

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7264:

```
GATCAACAGT TCTATTACAG ATTAGAATGT TTCAC TTCAC AGTTCTTTGT AAATCATGTC 60
AATTTTTATN ATAGNTGTCA ATTTGGGAAA ATCTGTATTA AAATTTTTTAA ATGAAA 116
```

(2) INFORMATION FOR SEQ ID NO: 7265:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 442
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08504

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7265:

```
GATCCCTAAT TGGCCAGGCC TGACCCTCTT GGACCTTTCT TCTTTGCCGA CAACCACTGC 60
```

```

CCAGCAGCCT CTGGGACCTC GGGGTCCCAG GGAACCCAGT CCAGCCTCCT GGCTGTTGAC 120
TTCCCATTGC TCTTGAGGCC ACCAATCAAA GAGATTCAAA GAGATTCCTG CAGGCCAGAG 180
GCGGAACACA CCTTTATGGC TGGGGCTCTC CGTGGTGTTT TGGACCCAGC CCCTGGAGAC 240
ANCATTCACT TTTACTGCTT TGTAAGTACT CGTGCTCTCC AACCTGTCTT CCTGAAAAAC 300
CAAGGCCCNC TTCCCCACC TCTTCCATGG GGTGAGACTT GAGCAGAACA GGGGCTTCNC 360
AAGTTGCCAG AAAGACTGTC TGGGTGAGAA GCATGGCAGA GTTTTCCCA GGACAGGTGT 420
TGACCAGGGC TTNTTGTTA TN 442

```

(2) INFORMATION FOR SEQ ID NO: 7266:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      148
(B) TYPE:         nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08505

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7266:

```

GATCTTCTGA CATTACTGCT GTCTGAGATT TGTATATGTG TAAATACAAG TTCCTTGATA 60
CCCTAAAACC TTGGATTAAA CAGAATGTGC ATTGTACATC TTAAACAAA ATGTATATTA 120
ATTTATTAAA TCTAGTTGTC ACTTTAAA 148

```

(2) INFORMATION FOR SEQ ID NO: 7267:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      169
(B) TYPE:         nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08506

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7267:

```

GATCTTAATT CTGTGTCTTA ACAGCAGGAG ATGAAATTCC CACATGGGAG ATGGCCTCCC 60
TGTCACAGGA AGGAATANCA TTCTCCCTAT CAATNNNGAG AAATTGGAAC TGNGAGAATT 120
CTGTATAGAC CCTTGTTCAA GTAATTNTTC TAGTTTAAAN CNTCCCAAN 169

```

(2) INFORMATION FOR SEQ ID NO: 7268:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      89
(B) TYPE:         nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08507

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7268:

```

GATCAAAGAG TCTCATCAAA GCAAGTTCTT CCCTCCCTGG TCCCCTTTGG CTTTCTGAAA 60
TNATTAATTA AAAGAAAGGC CCTAGGAAA 89

```

(2) INFORMATION FOR SEQ ID NO: 7269:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 225
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS08508
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7269:

```
GATCATTGNT TTATTTTGTA GTCCACCTTT CAATCACTTC ATGTATATAA AAAGGGACTT 60
TGAATGTAAT AGTCTTCATC TTATTTATTG AAAAGATGTA CTAAAGGAAT GACTATTTTT 120
AAAAAANCT CTAGTATTTA TCAATATGAC TCTAAGGGAA AAATCAAGAA ANTTAGAGGA 180
AGGTTCAANT TAGTAGTAAG GAATAGGANC NNNCATATNA NCTNN 225
```

(2) INFORMATION FOR SEQ ID NO: 7270:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 259
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS08509
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7270:

```
GATCTGTAGT GATGGAGTTC CTTCTGGTGT CAGCCCCACA GGAGGCTCCC AGGCCTCCCT 60
CACTTCCCAT ACCCAGTCTA GGAGCTCCTT CTGGCTCCCA AGCACCCAGA GCTTTCCTCC 120
GCCTTTNAGT TTTGGTTCCT CCACTGGAAT GTAGGCTCCT CACGGGCGAT GGCTGTCTTT 180
TCTTGACTTT GTATCTTCAC TGCCAAGCAA AAAGTCTGCC AAGTGGGAAT NTTAATAAA 240
TATTCATTGA ATAATGAAA 259
```

(2) INFORMATION FOR SEQ ID NO: 7271:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 357
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS08510
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7271:

```
GATCCCAGAA GGAATGCTGA CCCCTCGTCG TATGACCTGT GCATAGTCTC CAGAGCTTCA 60
AAGGCAACAC AAGCTCGCAA CTCTAAGATT TTNTNAAACC AAAAAACCC TGGTTAGCCA 120
TCTCATGCTC AGCCTTATCA CTTCCCTCCC TTTAGAACT CTCTCCCTGC TGTATATNAA 180
AGGGAGCAGG TGGAGAGTCA TTTNCCTTCG TCCTGCATGT CTCTAACATT AATAGAAGGC 240
ATGGCTCCTG CTGCAACCGC TGTGAATGCT GCTGAGAACC TCCCTCTATG GGGATGGCTA 300
TTTNATTTTT GAGANGGAAA AAAAAAGTCA TGTATATATN CACATAANGG CATANAN 357
```

(2) INFORMATION FOR SEQ ID NO: 7272:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 265
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single

- (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08511
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7272:

```
GATCTAAATN AACAGCATTT TTTTCCTTAG CCTCTGTTTG CCACTCTGGG TATCTCTCCT 60
ATGGGCAAAG CCATTAGAAA TGCATAAAAC CTCGAGACAT GGTTTTTGGC AAAA ACTCCA 120
TGACTTTAAA CTAGCTCTTT NACTACTGAC CTTTCACAGA GAAAAAATAT TTCCCTTGAA 180
AAAAACTGGG CTTGTNATTT TTNCCCTTGT AGCTTTAAGC AGAGACATAA GTGCCTTGCA 240
TTACACATAG TAAACTTTCT TTAAA                                     265
```

(2) INFORMATION FOR SEQ ID NO: 7273:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 164
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08512
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7273:

```
GATCTTCTCT TTTTTTGGGT TCATTTTGTT CTGGGTTTTG GTTTTCTTCA CAATCTTGAA 60
CATTTTACAG TAGAACTCAT CTAAAAATGG ATTTGGGGAT GGGGAAACAT GCACAAAATC 120
TTTTCATAAT TAAAAAGAGC CTTACTTTCT TTACATACCA CAAA                     164
```

(2) INFORMATION FOR SEQ ID NO: 7274:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 243
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08513
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7274:

```
GATCCGTTCC GTGGTCGCCC TGCACAACCT CATCAACAAC AAGATTGCCA ACCGGGATGC 60
AGAGANGAAA GAAGGGCAGG AGAAAGAAGA GAGCAAAAAG GATAGGAAAG AGGACAAGGA 120
GAAAGATAAA GATAAGGAAA AGAGTGATGT AAAGAAAGAG GAGAAAAAGG AGAAANAGTA 180
AAACATGTAT TAANTAGCTT TTTTAATTTG TAANTTAANA TCTTACANAC TNGAANCNAN 240
NNN                                     243
```

(2) INFORMATION FOR SEQ ID NO: 7275:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 265
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08514
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7275:
 GATCACAGGC CTTGAGAGAG NAGAATAAGA CACTCTTGGG GACAGAAAGT TAAAACACCG 60
 TGTGTCCTCA CTTATATGTG GGCGCTAAAA AAGTTGATGT CATAGAAGTA TAAAGTAGAA 120
 CAGAGGATAT GGGAAAGGTGG GAAGGGTAGG GGGAAAGGGAA GGATAGGGAG AGGTTTGTTA 180
 AAGGATACAA AATTACCACT CGATAGGAGG AGTAAGTNCT AAGTNCTAGT ATTCTATACC 240
 ACTGTAGGAT GACTATAGTT AACAN 265

(2) INFORMATION FOR SEQ ID NO: 7276:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 261
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08515

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7276:

GATCGCCCGC ATTCCGGAGC CTTCAAGTAA ACGGCGCGCC CCACGAGACC CCGGCTTCCT 60
 TTCCAAGCC TTCGGGCGTC TGTGTGCGCT CTGTGGATGC CAGGGCCGAC CAGAGGAGCC 120
 TTTTAAAGN ACATGTTTTT ATACAAAATA AGAACAAGGA TTTTAATTTT NTTAAGTATT 180
 TATTTATGTA CTTTNATTTT ACACAGAAAC ACTGCCTTTT NATTTATATG TACTGTTTTA 240
 TCTGGCCCCA GGTAGAACT N 261

(2) INFORMATION FOR SEQ ID NO: 7277:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 260
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08516

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7277:

GATCCACATC TAGTGAAATG TCAGTGTCAA AATATTATAG ATTATAGCTA AAATCCAGAT 60
 TAATACTCAT TTGGGGTTTT TAATAGTGGA ACTTCATAGT AATACAAAAA GCAGATTGTC 120
 TTCCTGTCTC CGCTGCTCCC ACAGTAGGTA TTGAACTGG TAAANCAAGT TTTTGTATAG 180
 TGTGTGTATA TAAGANANN TAGATACACA CATTCCTTTT CCTCAGTCAN CACATTGATT 240
 GACCACTCTG GCAAAGATGN 260

(2) INFORMATION FOR SEQ ID NO: 7278:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 60
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08517

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7278:

GATCCCACTC CACCCACCT CAACTTATTT AACTTCCTAA TTAAATCAGA CTGTTTGAAA 60

(2) INFORMATION FOR SEQ ID NO: 7279:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 156
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08518

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7279:

```
GATCTGGAGA CTTAAAAAGA AAACAAAAAC AAATGGCAAG TTCTACTTAA GGGTGGTTTG 60
CCCTTAAGAA GAAAGCTGTT GGGACAAAGA CACCGAGCCA TTATACCCAG AATAAAATAA 120
TACATTTATG CTGGATTTTA TTCAGACCAA ACTAAA 156
```

(2) INFORMATION FOR SEQ ID NO: 7280:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 329
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08519

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7280:

```
GATCATTGTT TAGAATATTT CCGCCACCTT AGAAAGTTTT GTCATGCCTT TTTTTTCAGT 60
CAGTCCCTCC CCTTCACTCA CTGCAAGACC ACCACTGTTG TGACTTTTAG CATCTAAATG 120
TAGCTTTGGA ATCATGTAGT ATGTACTCTC ATGTCTCTGA AATTCATCCA TGTTGTTGCA 180
TAATTCAGTA GTTCACTACT TTTTAATTTT TGATTAGTAT TTCATTGTAT GGGTGTACTG 240
TAATTTGTTT AACCATTCAC CTGCTGTTTA ATCTTTTGAG CTGTATGCAT TTGGCTATTA 300
TGAATAAAGC TGCTTTGAAC ATTCCTAAA 329
```

(2) INFORMATION FOR SEQ ID NO: 7281:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 270
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08520

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7281:

```
GATCAGAGAA GACCCCTGAG ATGAATCAGG GCCCTGCCCT GNCCACCAAC TCTTTTCTAG 60
CAATCATGTC CTGCCCAGGC TGCAGGCTTC ATTAGGCTCC TGCTGTCCTC CATGATGTGA 120
CTAGACAAG GTGTATATAT GTTTGTACC TCTGCCGATG GCTGTACATA GTGTATGAAA 180
GTTATTTAAG CCCCATGTTG TACATTCTG TTCCTAGATT GGATGTGTGT GTTCTAAGAA 240
GTTGTCATAA ATAAAACCTG AATGACCAA 270
```

(2) INFORMATION FOR SEQ ID NO: 7282:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 195
- (B) TYPE: nucleic acid

(C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08521
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7282:
 GATCCAATTA TTAGAAAAGC ACTCTTAAGA GTGCAATGAA TGTGATTGA AACTTGAAA 60
 GCAGCCTAGA TTTTACTATA TTTGTTATTG TTATCAATGG GGGTTTGCA ACCTTAAAAA 120
 TTATTTTNA TGTAAGATA CCTAGGAATT TCTAATAACT GTATTGTTT TAATAAACTT 180
 TGACTTTGCT GTAAA 195

(2) INFORMATION FOR SEQ ID NO: 7283:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 386
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08522
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7283:
 GATCTACCTC AGTTAAACAG TTGGGTGCTA TTAATAAGTC TGTCAAATTA AATTGGAAAA 60
 AGTAACCAAA CGGTGAGATA CAACTCCACA TGAAACTTGA AATTGTAATT TCCGTTTATT 120
 TAATGATATT TTNATTTATT TGTGCCTTTT ATGTTGAACC CCAATGCATT GAAAAANTTC 180
 AGTATGAAAC AGTACATATT TNATTTATAT TACAGGTGGG AGAAAAGTCC AATTGGTCAT 240
 GGAATTTGAT AGACTTTTCC CCAGCCAACT GCTACAGTGT ATTATAATCC CGACTGCCCC 300
 CCTGTGAAAA GANAAAAAAA ATGTGCCANG GGCAATTTN CCATTTCNA ACCANTANNG 360
 NCCANNCTCC TTAAAANGN GNGNNN 386

(2) INFORMATION FOR SEQ ID NO: 7284:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 187
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08523
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7284:
 GATCAGTTAG TAGGCTTTTCG NTGTCTTCTC TTTCAATACA TGTACATCTT TACTGTTTGA 60
 AAAGTGTTAC AGCTGTCAAA GAATCTTCAT GGACCTGAAG ATAATTTNTT GTGAAGTTGA 120
 ATGCAAGTNT ACTGTCATTC ATAGTGTTAA TATCAAANTA CCAGGAATNT TNACTTTTNC 180
 NACCTNN 187

(2) INFORMATION FOR SEQ ID NO: 7285:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 113
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08524

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7285:

GATCTCAGAA ATTGTATCTN AGTTGGTATC AACCAAATGG AGTGACTTAG TGTACATGAA 60

AGCGTAAAGA GGATGTNTGG CATTNNACT TTTGGCTTGT AAAGTACNGG CTN 113

(2) INFORMATION FOR SEQ ID NO: 7286:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 120

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08525

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7286:

GATCAAAGAG TAAGCCACAC ACGGATAATC AGTTACTAGG GATGGAGGTG TGAGGGTTCA 60

TTATATTATT CATTTTACTG TTGTATATGT TTGAAAATNT CTATAATAAA AAGCTTTAAA 120

(2) INFORMATION FOR SEQ ID NO: 7287:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 65

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08526

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7287:

GATCATGTGT ATGAATTGTT GGTGCTCTAA AGAACAGCAC AAATAAAATN ATTTTCAAAT 60

TTAAA 65

(2) INFORMATION FOR SEQ ID NO: 7288:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 110

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08527

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7288:

GATCCGNC CG CCTCAGCCTC CCAAAGTGCT GGGATTACAG GCATGANCCA CTGCACCCGG 60

CCCCATTCTT CACTTTAGCC TCAGGCAGAG AAGACNGCGC GATGGGGNNN 110

(2) INFORMATION FOR SEQ ID NO: 7289:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 296

(B) TYPE: nucleic acid

(C) STRANDNESS: single

- (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08528
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7289:
 GATCTGCGAC ACTGTGGACT GAACACACTG AAGCTCTGAT GGGAAAACCT GGTGACTGAT 60
 ATAGTTGTTC AGCAATAATT CATAGTCTGT GATGAAGAGT AGTGAATACA ACACACAACC 120
 AGGCAGCCTT CTTGACTATA CTTTGCACAT GNTTCTTTA GGAATTCAC CACACATTTA 180
 AACCAGTTAG TGCCTTCTAG AAGAATGGCT TTCCTTTNTN CTACACAAAN TTTGAATTAT 240
 ACAAGNNTCT AAATATAATA CCTTTNAATA AAAAGGNTAA TTNNGNCCCT CTGAAA 296

(2) INFORMATION FOR SEQ ID NO: 7290:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 381
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08529
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7290:
 GATCAGGTCC AAGCAAAACG TCCAGAGTGC TACAAAATGT TGC GTTCTCA GTCCAAAAAG 60
 AAGTGGAAAA GAATCTGAAG TCATGCTTGG ACAATGTTAA TGTTGTGTCC GTAGACACTG 120
 CCAGAACACT ATTCAACCAA GTGATGGAAA AGGAGTTTGA AGACGGCATC ATTAAGTGGG 180
 GAAGAATTGT AACCATATTT GCATTTGANG GTATTCTCAT CAAGAACTT CTACGACAGC 240
 AAATTGCCCC GGATGTGGAT ACCTATANGG NGATTTTATA TTTTNTTTCG GAGTTCATAA 300
 TGAATAACAC AGGAGGATGG GNTAAGGCAA AACGGAGGCT GGGTATGTGT GATGGGAAAA 360
 CTTTCTTCAT TGGTNCTTTC N 381

(2) INFORMATION FOR SEQ ID NO: 7291:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 51
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08530
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7291:
 GATCACCCCC GCCGACGGCC CCGGGCCCCG ACGGCCCGGA AGTTCCGCAA A 51

(2) INFORMATION FOR SEQ ID NO: 7292:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 347
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08531
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7292:

```

GATCATTCTG TTCTTTCAAG GAGAAATAAG CCTAAAAGAA GAAAAACAAA AAAAATTCTG 60
TATAAACTG TAATCCTTTG TATTATGTT TACAGTGCTA TTACTATAAT NCAAAATTAT 120
GTATGTGACT TAGAGTTATA TAATCATAAT TTATGTTTAT TTCAAATATC TAAGTTTATT 180
GCTTGGAATT CTAGTGAGAG CTGTTGAATT TGGTGATGTC AAATGTTTCT AGGGTTTTTT 240
TAGTTTGTGTT TTATTGAAAA NTTTAATNAT TTATGCTATA GGTGATATTC TCTTTGAATA 300
AACCNATAAT AGAAAATAGC AGNCACCATA ANCATCTTTG TAAATNN 347

```

(2) INFORMATION FOR SEQ ID NO: 7293:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 122
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08532

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7293:

```

GATCCAGAAA CTTTCCCAA GAAGCTTGGG CATGGATTGC TGGTAAACAC AAAAAGCTGCA 60
TGGAGGGCAG AGCAGCCGGT TGACTCCCC TTGTCAATAT CTAAAGTGG AAAAGCTTGA 120
AA 122

```

(2) INFORMATION FOR SEQ ID NO: 7294:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 138
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08533

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7294:

```

GATCATCTTT CCTGTCCAG AGAAGTGGGC TGGATGTCTC CATCTCTGTC TCAACTTTAC 60
GTGTACTGAG CTGCAACTTC TTAAGTTCCC TAACTNAAAG ANCGACTCTG ACAGAAACTN 120
TNTTNCNCA ACAGTTTN 138

```

(2) INFORMATION FOR SEQ ID NO: 7295:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 211
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08534

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7295:

```

GATCCTTCCG GNGGAGTGTC GGAGAAGAGA GCTTGCCGAC GATGCCTTCC TGTGCAGAGC 60
TTGGGCATNT CCTTTACGCC AGGGTGAGGA AGACACCAGG ACAATGACAG CATCGGGTGT 120
TGTTCTCATC ACAGCGCCTC AGTTAGAGGA TGTTCTCTT GGTGACCTCA TGTAATTAGC 180
TCATTCAATA AAGCACTTTC TTTATTTTAA A 211

```


(2) INFORMATION FOR SEQ ID NO: 7296:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 152
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08535

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7296:

```
GATCAACGGT ACTTGTTTAA AAGAAGCTTA TGTGGACTTT GTCTTTTCTC GTTGCCACAA 60
CCTCTTTTAA TGTGCCTATA GTCCACTATA GCATGCATAT CTCAAATTGC AATTCCTTGC 120
AATTCTGGAA TAAACGCTTT ATTTTGGAGA AA 152
```

(2) INFORMATION FOR SEQ ID NO: 7297:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 381
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08536

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7297:

```
GATCTGCTGA CTTATATAAA GCTTTTTGAT TCCTACTAAG CTTTAAGATT TAAAAAATGT 60
TCAATGTTGA AATTTCTGTG GGGCTCTATT TTTNCTTTGG CTTTCTGGTG AGAGAGTGAG 120
GAAGCATTCT TTCCTTCACT AAGTTTGTNT TTCTTGCTT CTGGATAGAT TGATTTTAAG 180
AGACTAAGGG AATTTACAAA CTAAAGATTT TAGTCATCTG GTGGAAAAGG AGACTTTAAG 240
ATTGTTTAGG GCTGGGCGGG GTGACTCACA TCTGTAATCC CAGCACTTTG GGAGGCCAAG 300
GCAGGCAGAC CACTTGANGG AGTTCGGGNC CAGCGTGGCC ACCGTGGTGA ANCCCTGTNT 360
CTNCTAAAAA TNCAAAATTT N 381
```

(2) INFORMATION FOR SEQ ID NO: 7298:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 379
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08537

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7298:

```
GATCAACAGC CTCCTCTCTT GGGGACTCTC AAGAGCCTGT TTTTCATCTAG AAGTAGTAGT 60
TTGATTCTGG TTTCCCTCCT ACAGTGTGTC CTCCGTCTCT TTGCAGCTCC GTCATTACCA 120
TAGGGGACTT GGTTTTAGAC TCTGATGAGG AAGAAAATGG CCAGGGGGAA GGAAAGGTGA 180
GTGGGAAGGA GCAGAAAGCT GGGAAAGGGG ATGGGTAGAA CAAGACTGAG AAATCCACAT 240
GCTTCAGANT TCAGAGGGTT CAGGGAATNG TTTCCGATAG TAGGCTCTCC CTGCTCCCTT 300
CTCTACAGGA ATCTNTGGAA AACTATCAGA AGACAAAGTT TGACACCTTG ATACCCACTC 360
TNTGTGAATA CCCTACCCN 379
```

(2) INFORMATION FOR SEQ ID NO: 7299:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 82
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08538
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7299:
 GATCATTACA AACAAAACT GTAATTTTNT TATATTTGAT TCAATGGAAT TTACCTAAAA 60
 AATAAAGACT AAAAATGTGA AA 82

(2) INFORMATION FOR SEQ ID NO: 7300:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 225
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08539
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7300:
 GATCCCTTTA TTGACAGCCA GTTTGAGGAC ACTGTCCCAG CATCTCTAAT GGAGCCTGAG 60
 CCGGTGTGAG GACCAGGATG TCTTTTCCCA GCCCCAAGAG ACCTGTTGCT GCTTTCTTGT 120
 AATNATGGGG CTCCCAGAG TCTGCGTAAC AGTCTCCCAC TGGCTGGCTC ACCCACAGGT 180
 GCCATGTGCA CACTCCTGGT TTTCAAACAA TTCTCTGGAT TTAAA 225

(2) INFORMATION FOR SEQ ID NO: 7301:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 216
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08540
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7301:
 GATCATGCAT GCCAATCCCT GTTGCCGCAT GGAGCTCCTC AGCCCACTGA CCTCTCCGTG 60
 CCTGGTGCAG GCCAGGCCCC CGTCTTCCGC CTGCCTCTGC TTCCCCGTCA TGCATGGTGG 120
 TGGTGTTTCT ACGGTGTCTG GTTCTGTGCC CGTCTCTGAG ACAGTCTCTG TGTGGAATNT 180
 GCCTTAAACT GAAGTAAATN TGGTTCTTTT AGTAAA 216

(2) INFORMATION FOR SEQ ID NO: 7302:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 374
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08541
 (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7302:

```
GATCAATTCA TGCAAGATAT AATCATATTT TTTAATTAAG AAAATTTTTT TTGTAGAGAT 60
GGGGTTATGC TGTGTTGCCT GGCTGGTCTC AAACCTCTGGG TCTCAAAGCG GTCCTCCTGC 120
TTTGGCCTCC TAAGGTGCTG GGATTATAGG CATGAGCCAC TGTGCCAGGC CTGAGGATAT 180
TATCATTATA AATATATATG TACCCACAC TGGATGACCC AGATATAAAG CAAATATTAT 240
TAGATTTAAA GGGAGAAATA GACTCTAATA CAATAGTAGT TGAGGACTTC ACTCTACTCT 300
CAGCATTGGA CAGATTTTCT AGACATAAAA CCAATAAATA TTGGATTAA ATTGCACTTT 360
ACACCAAATG GTCN 374
```

(2) INFORMATION FOR SEQ ID NO: 7303:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 113
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08542

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7303:

```
GATCCCATTT CTATGAAATG TCCAGGGCAG GCCCAGCCAC AGAGACAGGG AGTAACGTGG 60
TGTTTATTA TAAATTTTTC ATGAAAATAA AATATACAGT ACTCTCGTGN AAA 113
```

(2) INFORMATION FOR SEQ ID NO: 7304:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 286
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08543

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7304:

```
GATCTGCACA GCCTCTAGAG GCCTCCCAGC AAATGCGGGG AGCCATGCCC CCAGGGTCTA 60
CACACTCTCG TTCATCAACA TCACAACCTGG AATTCGGGAT TTGTGAAGTT TAGAGCTGNA 120
CAGACTGTGA CAGATTATGA GTCAACACGT ATATTTTCTC TTTCAAATA ATAATATTTT 180
GTTTTTGACT TTTTACTAAG TGAATATTAT TTTTAAATC TGCCTATATA TTGGAACCTC 240
TATTTTATAA TAATAATGAT AATAAATCAG TACCCAGAAG TATAAA 286
```

(2) INFORMATION FOR SEQ ID NO: 7305:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 116
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08544

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7305:

```
GATCTAAATN ATGTAATTGT TAGTGTATTC ATTCATATTG ATTGTAAAGG ATTATTTTTC 60
ACTCAGTACT GATGTCCTTG GAAATCTTAC CTGGAAACAT GTTTGCAAAA AACAAA 116
```

(2) INFORMATION FOR SEQ ID NO: 7306:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 137
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08545

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7306:

```
GATCCCAAGT CTACCCTGGA AATNCCCAGG CACAGCATGC CTGGAGGTGT GAGCCGCCTC 60
TTAGAAGCTT TATAATCCCG GATAATNCTG CTGTAATTGG CATTGTTTTT CCATTACAAT 120
CCTTTCATTA CCTGAAA                                     137
```

(2) INFORMATION FOR SEQ ID NO: 7307:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 317
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08546

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7307:

```
GATCCCAGCT TGGTGGGAAA GTGCAGAAGA ATTGCAAAAC TGACATCCCA TNTNACAGCA 60
ATAGTGACCT TTATTTAAAT TGTTGTGTTA TAGTTTATGC TTCTTAAATC ATTTTTC AAC 120
NTAAACAGCC AATTTCTAAG CAGACAGGAA AACTAAATAA TAAGTTNATT NATATAACAA 180
AGATGCAGGT TCCTGCTCAT TCCAGTAATG TCTTTGAAAG CANNNCTNAT ATTTNTTTTC 240
TAGATTATCC CTGTGAATAA TTGAGANCTT TTTGGAGTCA AGNATGAATA AAGGTGTGGC 300
AAGGNTATAA ACANNAN                                     317
```

(2) INFORMATION FOR SEQ ID NO: 7308:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 337
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08547

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7308:

```
GATCTGTCAG AAAAGACATA TTTTGTAGAT AAAGGAGTTT CTAAATAATG AATTATTGTT 60
TAGTACCAGC TTTTGGAAATC CTTACATTTT AAGGAACTTG AATAATTTAA ATATTAGATA 120
ATGTAACTCC TCATAAAAAC AGTGTCTAGA CAAGGGCCAA TATTGCATTG AGATTGGATG 180
AACATTTTAT TTTGCATATA ATTGTTGTCT ATAAAACAAA ATACTAATAA TAATGGCTAC 240
CNGTTAGNCA NTTTAGNNCN TGTCTTACTA TTTACCNTG TGGNAAAACA TTGCATGNTT 300
TAATNTTTTT CTAATAAAAT ATTNTNCCAT TANCNNN                                     337
```

(2) INFORMATION FOR SEQ ID NO: 7309:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 389
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single.
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08548
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7309:

GATCCCACCA	ATCCTCGTTC	CCCCTAAACA	TGCTAACAAA	AATCCCTTAT	TGTGGGTATT	60
AAAATAATAA	CAGTTACACT	GTATGCATAT	TTATGTGCTC	CTTTTGTCTG	GTTTTNCTTT	120
TCATCATGTA	TAAGCTGAAT	TCAGCATTAG	TTTCTCACAT	CTTCCCCCAG	GTATCCCCAA	180
CAGAAATTTT	ATGTCCCAGC	TTGTATTAAA	TAGAAGTGAA	ATATTAAGGA	AAATAAGGAA	240
CTTGTGCAAC	TTTTTTNATG	CATTGTTCTC	AACCATTTAA	TTTATTGAAA	GGAGATGCTG	300
CAACAGTTCT	TGATTTAGCA	GCAGTTATTC	TCTTGTTTAC	ATAGTTATGG	TTTTNTGTTG	360
TTGGTTTTTG	CTCTGGTACT	GGAACCGN				389

(2) INFORMATION FOR SEQ ID NO: 7310:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 367
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08549
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7310:

GATCCAGGTC	TTCTGATTCT	TATTCCAGTG	TCCTTTCTAG	CATACCATGT	TGCCTCTAAA	60
GATTGCAGCT	CCTTATTTAC	TAGAAAATTG	TTCCTGCCCA	ATCTACATCT	CCACCTCACC	120
CCATCTTTTC	TTAAGCACTA	TGTTTGTGTT	TTTATCAGTA	TTATATTCAT	TGTCTTTGGA	180
ATACATGTTC	TTGTTTGTGT	TTGGAAAAAA	AATCTCTTTT	ACCAGCTTGC	ACTCGGACCA	240
ACTTGAAAAA	AAAAANGCTT	AAATGTTTTN	GCTATGTNCA	GTTTAAAAAT	GTGAAGTTTG	300
TNGCTTTANC	TTTTTGTAGG	AAAATCTANT	ANCACTGGCT	TAAGTGCTGA	CTTGAAATGC	360
TATCCAN						367

(2) INFORMATION FOR SEQ ID NO: 7311:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 56
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08550
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7311:

GATCCAGCGA	ACCACTGCAC	TCTAGCTGGG	GAGACAGAGC	AAGACTCCGT	CTCAAA	56
------------	------------	------------	------------	------------	--------	----

(2) INFORMATION FOR SEQ ID NO: 7312:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 92
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single

(D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08551
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7312:
 GATCTCTTCC CTTAGGAAAT ATCAACATCT TTATGTACAT GTCAGAGTCA TGGTGTGATG 60
 ACGTACTTTG AAGCATGGAG TCAGTTTTCA AA 92

(2) INFORMATION FOR SEQ ID NO: 7313:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 368
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08552
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7313:
 GATCCACTTA TGAAGTGAAC ATTCTCCATG AACAGGTGGT TGGATTGGTA TCTGTCATTG 60
 TAGGGATAGA TAATAAGCTC TTCTTATTCA TGTGTAAGGG AGGTCCATAG AATTTAGGTG 120
 GTCTGTCAAC TATTCTACTT ATGAGAGAAT TGGTCTGTAC ATTGACTGAT TCACTTTTTTC 180
 ATAAAGTGAG CATTTATTGA GCATTTTTNC ATGTGCCAGA GCCTGTACTG GAGGCCCCCA 240
 TTGTGCACAC ATGGAGAGAA CATGAGTCTC TCTTAATTTT TATCTGGTTG CTAAAGAATT 300
 ATTTACCAAT AAAATTATAT GATGTGGAAA AAAAAAAAAA AATTGCGGGC TTGNANGNTN 360
 GGGGTCAN 368

(2) INFORMATION FOR SEQ ID NO: 7314:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 297
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08553
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7314:
 GATCACACCA CTGTACTCCA GCCTGGATGA CAGAGTGGAG ACTCTGTTTC AAAAAAACAG 60
 AAAAGAAAAT ATAGTTTGAT TCTTCATTTT TTAAATTTG CAAATCTCAG GATAAAGTTT 120
 GCTAAGTAAA TTAGTAATGT ACTATAGATA TAACTGTACA AAANTTGTTT AACCTAAAAC 180
 AATCTGTAAT TGCTTATTGT TTTATTGTAT ACTCTTTGTC TTTTAAAGAC CCCTAATAGC 240
 CTTTTGTAAC TTGATGGCTT AAAATTCCTN ATTAATNCTG CCATTTCAAN TTCCAAA 297

(2) INFORMATION FOR SEQ ID NO: 7315:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 86
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08554
 (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7315:

GATCTTTGAA TGAGCTTTTT AAGGAAGAAA TATTATATAT TGTTTGTTAA AGTTTATTGA 60
AATAAAGAAT CATTTAAATC TTCAA 86

(2) INFORMATION FOR SEQ ID NO: 7316:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 356
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08555

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7316:

GATCCAAATT GTGAAGCCGT TGGTCAGGTG CCTGGCTACA CACAAAATGG TGGAGGCTTA 60
GCCTAAACAG TTTCTTCATT TCACATTAAA ATCCTAATTN NTGGCTCCTC TCAAAATGAG 120
TTCTAGAAGC ACNGGNTGTA GATTCCCATG TGGACACAGC CTTCAGGAGG TGAGCAGCAG 180
CTCCCTGCAG CCAGCTGGAG CCTGCCAGTT TTCCCTAGTG CCCAGCACTC CTGAGCTTCT 240
GCCCTCCGAG GGATTCCCGA AGTTTTTCT AATGGGNTTA GTGGNGNCNC CTTTGGGGTT 300
GCTTNGGTTT CNTTTNGTTA NGNGCCCTTG NTTTTAAATT AAANCNGGGC CATTNN 356

(2) INFORMATION FOR SEQ ID NO: 7317:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 349
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08556

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7317:

GATCTGTGGG ACTGTCTGGG CCTGTTACTC ATCCTGCTAT CAATTTCTTA TTAATTAATC 60
TTGATGATTC TNATTAATTA ATCACATTTG CAGGAAATTC AGATGAGGCA AGAAAATTTN 120
ATTGGCCTGG GNNNGACTGA AAGCATTTCA AATTAGGCTT AGACTGTGCA AAGGGCTTAG 180
CTAAGTTATC GAGCTTAAAA CCCGTCAATT AANCAAACAT TATTTGANCA GTTACTGCAT 240
GCCACGCACT GTGTTGGGCT TAGTAATAAA ANNNAGNAAA GGTAAGNGCT TGTNCTNGCC 300
TAAATTAAAG GGTCCCCGGG GGTTTTTTCT NGAGGGGGCN NCTGCCCCN 349

(2) INFORMATION FOR SEQ ID NO: 7318:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 351
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08557

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7318:

GATCACCTGA GGTCAAGAGT TCAAGACCAG CCTGGCCAAC ATGGTGAAAC GCTGTCTCTG 60
CTAAAANTAC AAAANTTAGC TGGGCATGGT GGTGGGCACC TGTAATCCCA GCTACTCGGG 120

AGGCTGAGGC AGGAGANTCG CTTGATTCCA GGAGGCAGAG GTTGCACTGA GCCAAGACTG 180
 CACTGTTGCA CTCCAACCTG GGCAACAAGA GCAAAACTCC GTCTCAAAA AAAANGTGTT 240
 TAATTATTCT AAAAAAATT CAGCCAGGTT ATTCCAAATT NTAATTGAAA NCNGGGGCCC 300
 CAGGTTAANC GGGGCCTTAC CTTTCCCTTN GCNCTTTGGA NTTTNNCCAT N 351

(2) INFORMATION FOR SEQ ID NO: 7319:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 333
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08558

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7319:

GATCAGCAGT GTTGACCATT TATGCTGCAT AGCTGGTATT ATAGCCTTAT TAGTTGTGTG 60
 GTTGACCCTT GGGGTATACA AATGTCAGTC TGAGTGGTGN CTTACTCCTT TGTTTATAAG 120
 TGAATGATTG TGCATGTTTT GTATGTCATA GTATGTCGTC ACATAAAAGG GAGGGAGCGA 180
 AAAACCATTA CATTAAAGATA ATATTGGACC AAACACTTA CTTGCTCTAA ACAGTTACTT 240
 GTACCCCTTA ACCTGTCTTC AAAAGTTGCA TATAGTTACA GTAGTGATA AATTAAATAT 300
 TGTGGAAC CANNAAAANN NNNNANNNNN NNN 333

(2) INFORMATION FOR SEQ ID NO: 7320:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 192
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08559

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7320:

GATCAGCTGA AGGTTTCATGG GTTTTAAGTG CTTGTGGCTC ACTGAAGCTT AAGTGAGGAT 60
 TTCCTTGCAA TGAGTAGAAT TTCCCTTCTC TCCCTTGTC CAGGTNTAAA ACCTCACAGT 120
 TGATAATGTA CCATTGGGGN CCGTTTTAAC TGGGCCTAGG NACCCCTCA NGAATAACCT 180
 GNAAGGGCCA AA 192

(2) INFORMATION FOR SEQ ID NO: 7321:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 55
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08560

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7321:

GATCGTGCCA TTCCACTCCA GCTTGACAA CAAGAGCAA ACTCCGTTTA TTAA 55

(2) INFORMATION FOR SEQ ID NO: 7322:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 78
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08561
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7322:
 GATCAGACCC CCACAATATG TCTCAACCTC TGTGAAGGG CTAGTGATGT TTAAAAAAC 60
 CTGTTATTTC CAATCAAA 78

(2) INFORMATION FOR SEQ ID NO: 7323:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 375
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08563
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7323:
 GATCTGGTAT TTCCTGGACT AAATCCCCCT TGGGGAAGAC GAAGGGATAN TGCAGTTCCA 60
 AAAGAGAAGG ACTCTTCCAG AGTCATCTAC CTGAGTCCCA AAGCTCCCTG TCCTGAAAGC 120
 CACAGACAAT ATGGTCCCAA ATAAGTACT GCACCTTCTG TGCCTCAGCC GTTCTTGACA 180
 TCAAGAATCT TCTGTTCCAC ATCCACACAG CCAATACAAT TAGTCAAACC ACTGTTATTA 240
 ACAGATGTAG CAACATGAGA AACGCTTATG TTACAGGTTA CATGAGAGCA ATCATGTAAG 300
 TCTATATGAC TTCAGAAATG TTAAAATAGA CTAACCTCTA ACAACAAATT AAAAGTGATT 360
 GTTTCAGGT GGAAA 375

(2) INFORMATION FOR SEQ ID NO: 7324:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 271
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08564
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7324:
 GATCCACCTG CCTCGGCCCTC CCAAAGTGCT GCGATTACAG GCATGAGCCA CCGCGCCTGG 60
 CCGCTTTCGA TATTTTCTAA ACTTTAATTC AAAAGCACTT TGTGCTGTGT TCTATATAAA 120
 AAACATAATA AAAATTGAAA TGAAAGAATA ATTGTTATTA TAAAAGTACT AGCTTACTTT 180
 TGTATGGATT CAGAATATAC TAAATTAAT TTTTAAACA CAACTTTTAA AAAATGTATC 240
 AAAATAATAA ACGTGTTCTG ATATTTTAA A 271

(2) INFORMATION FOR SEQ ID NO: 7325:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 102
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08565
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7325:
 GATCCCCTGA GTTCAAGAGT TTGAGACCAG CCTAGGCAAC CTTGTCTCTA CAGAAAAATA 60
 AATAAATAAA TAAATAAACA AACAAACAAA CCAAAAATTA AA 102

(2) INFORMATION FOR SEQ ID NO: 7326:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 216
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08566
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7326:
 GATCATGAGG TCAGGAGACC GAGCACCATC CTGGCTGACA CGGTGAGACC NCGTCTNTAC 60
 TAAAAATACA AAAGCAAAAA TTAAGTGGGT GTGGTGGCGG GTGCCTGCAG TCCCAGCTAC 120
 TNGGGAGGCT GAGGCAGGAG AATGGCATGA ACCTGGGAGG CGGANTTGCA TTGAGCTGAG 180
 ATGGCACCAC TGCACTCCAG CCTGAGCGAN NNNNNN 216

(2) INFORMATION FOR SEQ ID NO: 7327:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 176
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08567
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7327:
 GATCTGCTCT CTGTTGAGAG TTGGTAATCA TTGGTTTGAA ATGTGATGAA ACCACTCAAG 60
 CCAATGAAGG TGGGTGTGTA GGTGGGGAGT ACTTTGCCAT AATATTTTAA AACATTACCT 120
 GGTTAGAGTT CTAAGTGGTA CTTATTTTTG TTTGGTTAGG GGAAAGCCTG AATAAA 176

(2) INFORMATION FOR SEQ ID NO: 7328:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 106
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08568
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7328:
 GATCTCTGGC TGTTTGATTT TTTNATATT GTATTTTAA AATNTGTAA ACAGTGCCCT 60
 GTGAGACCA AGTACCACTA GATGAATAAA ACGTATTATA TCTAAA 106

(2) INFORMATION FOR SEQ ID NO: 7329:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 379
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08569

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7329:

```
GATCCGGCAG GCAGAGAGGA AAAAGGGAAC TTGTACCAAG CACAAACAGG NTCTAGGCAT 60
AGTGCTGTGT ACTTAGGTTT TTCCTGTGCT TCAGTCTTTC CAATAAATCC AGGGGTTAGG 120
TTTTAATCTN NCTATTTNAT AGTTACAGAC CATTTTAAAT GGACAAGCAG CCCATTTAAA 180
GATAAAAGTA CTTAGATGGA CTAGCAGCTT CTCTACCAA TTATTTTACC ACACAAAGNT 240
AACATCATTG TGAAATTTGG TTTAGTTAAC ATGCATTCCC TGGCCTGCCT CACACCGGAC 300
CTNTACCCGG TACCATGCAA ATGCACATCT GCTGCTACAC TTGTGGGATG CTGGTTTAGG 360
TAATNTTTTT TTATAATNN 379
```

(2) INFORMATION FOR SEQ ID NO: 7330:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 271
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08570

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7330:

```
GATCCAGCA GAATACAAA ATCCTATTTT TTTTGACTGA GTATTTGTAG ATGCTTAATG 60
ACTGAAATNA ATTTGGAGGC ACTGATGAAA GTAATTTTTT NAAAGTTCTC AGGTACTGTT 120
CAATTATTTA ATGTTAAGTT TAGTATCAAG ATACAGTTGT TTTNAAAATG CCAAATGCT 180
GTTTATNATA CAGAATATTT NATTACATTT GCAATATCTT TGTATATAGT GATTTTNTNC 240
TTGATAATAA ATGGAAAANT TCTAAACCA A 271
```

(2) INFORMATION FOR SEQ ID NO: 7331:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 382
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08571

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7331:

```
GATCGACCTG CCTCTGCTTC CCAAAGTGCT GGGATTACAG GCGTGAAC TA CCGCGCCTGG 60
CCCTCAGATA TTTTAAATT TGAAAATTAA GAGTATATAT TAATATCAAG TNGCAGAAAC 120
AGAATGAAGT GTTATAAAGG CGTTAAGTAG TAGGGNGGCA TAAAACTTAA ATCTTTAAGC 180
TAGAAATAGC TTGAGGAATT ATCTGATGCA GTACTCTGTT GTAATATAAC AAAAATGGAA 240
TCACAGTTTT ACAAATCAGG CAGCTGCAGC TCAGNGAGGT TAAATTTCCA CAGACCTGTT 300
TATGCAGCGC GGTAANTGAG GAAGTAGACC TAAAATTTGG GGCCTCTGCT ACTCTGGGCC 360
ATTACCTCAG CCTCGCTGGC AN 382
```

(2) INFORMATION FOR SEQ ID NO: 7332:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 315
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08572

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7332:

```

GATCTCACAG GAATCCTTCA ACTGCTTTCT ACCAAGCGTT CCATTTGAAC ACGTTAAAGG 60
AATCAAAGAG CCTCTGGGAT AGGGGGGAAA NCACATGGTA TCTAGCATGG GACAAAGCAG 120
CAAAATAAAC CAAAAGGACA ATCTCTATTT TATATAGAAA ATAAACATAC TTTTCTGCAT 180
CCTGTGTACT TTAAGTATAT CTATATTTTT GAAGGGTTCA TACTGTGTTG AATTTTCTT 240
ATGAAATAGT CACTTCCCCA GTGTATTTTA ATGCAAATGC ATATTCTATA AAATAACCTA 300
TATTTTAATT TTAATA
                                     315

```

(2) INFORMATION FOR SEQ ID NO: 7333:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 104
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08573

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7333:

```

GATCTTTAAT ATCTGATATA TTCCTGGTAC TCGTACTGAT AAGGGATTAT TGGAAAGTCAG 60
TCACAGAATT TGGAAATAAA TTCTAGTCTN TCCTTAGCTN NNNN
                                     104

```

(2) INFORMATION FOR SEQ ID NO: 7334:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 140
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08574

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7334:

```

GATCTACCTG AGGCTCAGTC CTCATCTGTA AAATGCTGAT AAAAGGACCT ACCACCTAGC 60
GTTGCTGTGA GGTGTCAGTG AAATAAAATG TAAATGCTT AGCACAGTGA ACTTTAATAA 120
ATGGTAGTTG TGGTTGCAAA
                                     140

```

(2) INFORMATION FOR SEQ ID NO: 7335:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 93
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08575

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7335:

GATCTAAAGT CTAAAAACA AATCCTTAGG TTAAGAAGAA AATAATGCAA TAAATAAAAT 60

GTTATAAATA AATGACATAT TGCNACTTTT AAA 93

(2) INFORMATION FOR SEQ ID NO: 7336:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 96

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08576

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7336:

GATCATACCC ATGAAACCCA CTGTTTAGAT TTTAAAAAGT TCAATGTTTT TCTGTATTTN 60

ATCTCTTCAT TTTAAAAATAA AGTTTTGCAC ATGAAA 96

(2) INFORMATION FOR SEQ ID NO: 7337:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 224

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08577

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7337:

GATCTAAAAG CAGATGCTGT AGCTGCCTAC TTTAACCCAT TTTTCAACCT GTTTGTTTTT 60

TAAAGGGCTT CACTAAGGGT NNNNNATGTA CCATTGTAGG GGGCAATTTT AAGTCAGCTA 120

AGGCAATAAC CTTATGCATG AACATTTCCC AGACTTTCAT GAAGCTGTTG AGGTCCTAGG 180

CAATTAATGC GGCAGTTGTG ATAAATAAAA ACATCTCACC TAAA 224

(2) INFORMATION FOR SEQ ID NO: 7338:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 175

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08578

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7338:

GATCNATATT TAGTGACTGC AACATGTTTA TACCACTGAT TCAAATTCCA NNNNTGATGA 60

AGTTATACAA ATAATGCATA TATTGATAAC TTTTATTGCA AAAATGTAAA TTTAAAACTT 120

GTATAATGTT CTTGTGCTTT TTAAAATAAA ATATATGTGT ATATTTAAAA AGAAA 175

(2) INFORMATION FOR SEQ ID NO: 7339:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 143
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08579
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7339:
 GATCTGAGGA TGGTTATAAA TACTGTAAGT ATTGTAATGT TATGAATGCA ANNNATTTTG 60
 AAAGCTGTTT ATNATNATAT CATTCTGAT AATGCTATGT GAGTGTGTTTT AATAAAATTN 120
 ATATTTATTT AATGCACTCT AAA 143

(2) INFORMATION FOR SEQ ID NO: 7340:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 106
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08580
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7340:
 GATCACTTGA TTTTAAAGAA ATNAAAAATT GCACTAGGTA GAAATAGTGT ACCAGGCAAT 60
 AGTCCAGCTT TAGTTTTNTG TCATTTTTNG TCTCTATTTA AAGNNN 106

(2) INFORMATION FOR SEQ ID NO: 7341:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 93
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08581
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7341:
 GATCTCAAAG CAAATCTGTA TTTTAATCTC TCAGGTGTTC ACTAGTATTA CCAGTGAATA 60
 GTGGAAATAA TAAAAGGAAA TCTTGTTTCAT AAA 93

(2) INFORMATION FOR SEQ ID NO: 7342:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 193
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08582
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7342:
 GATCTTCGCT CCAGCTTTCT GCATCTGAGC TGGAAAAAGA GCAAAAACGG GTAAAAATTG 60
 AATCCAAATA TTGTCGNATG TATGCCTAAT TTAGAATGAA ATCTTGGGGT GGCAGACTCT 120

GGAGTTCTCT GTGAGGTGTG GCATTCTTTT NTCTAAATCA CTTATTTGCC AATGTATGTG 180
TCACTTTGTT AAA 193

(2) INFORMATION FOR SEQ ID NO: 7343:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 137
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08583

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7343:

GATCTATAAT AAGAGCTCAA TAACTNNGTC AAGGAAAGCT CTAATATATG CAGTGATGGT 60
TTATGAAAAG GTGTGGCAAT NTNAAATNTA TATTGTGTGT GATGTTCAA TAAAGTGGTA 120
TCTACATNCA TGTGAAA 137

(2) INFORMATION FOR SEQ ID NO: 7344:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 389
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08584

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7344:

GATCCCTGGT ATNGTCCGAA TTGTAAAGAA CATCAGCAAG CCACAAAGAA ATTGGATTTA 60
TGGTCCCTGC CTCCAGTACT TGTAAGTACAT CTNAAGCNAT TTTNTTACAG TCGATACATG 120
AGAGACAAGT TGGANACCTT AGTTGATTTT CCTATCAATG ACTTGATATG GTCGGAATTC 180
TTAATTAATC CAAATGCAGG TCCTTGCCGC TATAATCTGA TTGCTGTTTC CAACCACTAT 240
GGAGGGATGG GAGGAGGACA CTATACTGCT TTTGCAAAAN ATAACGATGA TGGAAANTGG 300
TACTATTTTG ATGACAGTNG TGTCTCCACT GCATCTGANG ACCAAATTGT GTCCAAAGCA 360
GCATNTGTAC TCTTCTACCA GAGACAAGN 389

(2) INFORMATION FOR SEQ ID NO: 7345:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 367
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08585

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7345:

GATCTGTAC CATCAGGTCA ATTCCTAGTA TGCATAAATT TTTAAACCCT TTAAAAGAG 60
ACCTATGTTG AAAACCCCTG AAAATTCCT GAAGAAAAAT CATTACTCTT NTTCTCNGTA 120
AATCATATCA TCTGAAATAT TACAAATTTT AAATTTCTAG GTGCTATATT AATTCAATAT 180
TACAATAACT CTTACCTAAT TATTCTTACA AGTTTAAAGT TGTGGTAGTT TAGTGATTTT 240
TTTAAAAGAT GTGTGAAATG TTCTCTGCAA AATAATTCAG GCCACTGTCT CCTTTTATAT 300
ATNATNATNN TNGTNTGTGA TGANGACCAG TGAATTACGA TATTTAAAGT GAGAGACCTT 360

AATTNTN

367

(2) INFORMATION FOR SEQ ID NO: 7346:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 23
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08586

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7346:

GATCCCGTCT ATAATCNAAC AAA

23

(2) INFORMATION FOR SEQ ID NO: 7347:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 103
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08587

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7347:

GATCGGCTCC CTGTCGCGCC CGAGGAGGGC TGGACCTTTC GTGTCGNACC CTTGGGNGCG 60
 NNGAGACTGG GTGGGGAGGG TGTGAATAA AAGGGAAAAT AAA 103

(2) INFORMATION FOR SEQ ID NO: 7348:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 367
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08588

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7348:

GATCTGGTGG CTGGA AAAAC AAGAGTGACA TTAACAAATC ACA AAAAATC AGTTAGGGCT 60
 GTGGTTTTAC ATCCAAGACA TTACACATTT GCATCTGGTT CTCCAGATAA CATAAAGCAG 120
 TGGANATTCC CTGATGGANG TTTCATACAA AATCTTTCCG GTCATAATGC TATTATTAAC 180
 ACATTGACGG TAAATNCTGA TGGAGTGCTT GTATCTGGAG ACAGAAGAAA CTCATCCAGT 240
 CAGCTGGA AA CCAGAAATTA TCAAGNGAAA GNGATTTTAA TGAATGTGGA ATTTTTCCTC 300
 TCTCTTTTTT TTTCTTTTTT ATTA AAANAA AAAAGGCTTG GNGTTCATGG GGGNTTTCCTC 360
 GNCCTTN 367

(2) INFORMATION FOR SEQ ID NO: 7349:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 22
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08589
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7349:
 GATCCCGCCT NTTTCTTACA AA

22

(2) INFORMATION FOR SEQ ID NO: 7350:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 378
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08591
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7350:
 GATCTTTTAA AAATTCATCC CATATCCAGA AAGTACCAGT TATAAAGATT GCTGACCAAG 60
 CAAAGTTTGT CATCAAAGTG TCACCTCATT GCTCTGACCA AAGACTGACT GTTGTGGTTT 120
 TAACTCCTCT CTGTAAAGCA TTTTGCATTT TCCCAAGCT CCTTTCTGAA AGAAGAACCA 180
 GTGCAGAGCG GCCTTTACTT TCAATTTCTA CTGCTGAATA GACTACTTAG AGAAAATGTG 240
 AGTTTCAGTG TGAACAGAAT GGATTAGGAT GACGAGTTTG ATGGGCATTT TCAGTACTGT 300
 ATCTAAGAAA AAAAAATTNG CACAGCTAGG AGCCTCTGAC CATTGTCTGG GTGTTTTACG 360
 TGGGTCCTGT TCATCAAA 378

(2) INFORMATION FOR SEQ ID NO: 7351:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 379
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08592
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7351:
 GATCAAAGTC AAAAAATAGCA ATGNCTCCCT ATCCCTCACA CATCCAGACA TCATGAATTT 60
 TACATGGTAC TCTTGTGAG TTCTATAGAG CCTTCTGATG TCTCTAAAGC ACTACCGNTT 120
 CTTTGGAGTT GTCACATCAG ATAAGACATA TCTNTAATTC CANCCATAAN TCCAGTTCTA 180
 CTATGGCTGA GTTCTGGTCA AAGAAAGAAN GTTTAGAAGC NNNNNCACAA AGGGTTGGGA 240
 GCTGATGAAA CTCACAAATG ATGGTAGGAA GAAGCTCTCG ACAATACCCG TTGGCAAGGA 300
 GTCTGCCTCC ATGCTGCAGT GTTCGAGTGG ATTGTAGGTG CAAGATGGGA AAGGNTTGTA 360
 GGGTGCAAGC TGTCCCAAN 379

(2) INFORMATION FOR SEQ ID NO: 7352:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 119
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08593
 (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7352:
 GATCTGCTTT AGTGAGAGGA CAATTTCTGA TTGATTGTTT TCTCTTCAGG CCATCTCACC 60
 TCTTCATTCT CTTGTNACAT TTGAAGCAGT TGATATAATG GGTTCATANN NNTAAAAGN 119

(2) INFORMATION FOR SEQ ID NO: 7353:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 93
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08594
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7353:
 GATCAGCTAT TTTCAACATA ACTGAAGGCA TATGCTGGCC CATAAACACC CTGTAGGTTT 60
 TTGATATTTA TAATAAAATT GGTGTTTTGT AAA 93

(2) INFORMATION FOR SEQ ID NO: 7354:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 297
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08595
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7354:
 GATCTCTGTA GACTTGCCCTC TTCTGGACAT GACATAGAGA AAGGAGTCAT AAATTCTCCA 60
 AGGTGTCTGT TTCTTCTTTA ATGTCATTCC CTGTTTCTCC TCACATTCCC TCCCCATTTC 120
 CTGGGCCCCAG TCTCACACTG GTCCTTGCTT ACCCTAAATG CTATTAATTC CATCACTCTG 180
 AGTATGGTGT TTGCTGTCCG CTGAATGCCA AGAGCTTCAA GAGTGTGTGT AAATAAAGCC 240
 ACACCTTTAT TTTTGTATTA TTCTGAACCA TGGCTAATAA ATTGTTTCAC CAAGAAA 297

(2) INFORMATION FOR SEQ ID NO: 7355:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 45
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08596
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7355:
 GATCTCCGAT GTGATGAATA CGAATAAAAG GCCCTTAATG GCAA 45

(2) INFORMATION FOR SEQ ID NO: 7356:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 212
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single

(D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08597
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7356:
 GATCTGTTCA TGCTTTTGTC TTCGTCACTG CGGCGGGGCC CTTTGATGTC TTCATCTGTA 60
 TGGGGTGGAA AAATCACCGG GAATCCCCCT NNNAGTTCTT TGAAAAAGTT CCATGACTCG 120
 AATATCTGAA ATNAAGAAAA CAAACCGACT CACAAACCTC CAAGTAGCTC CAAATGCAAT 180
 TTTTAAAATG GAAAACAAAA ATCTGAAAGA AA 212

(2) INFORMATION FOR SEQ ID NO: 7357:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 250
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08598
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7357:
 GATCTAAACT GTATTTTCCA ATTTAAATTA AAAATGTAAT ATAGATTCAG AAAGGTTTCAT 60
 ATTTTCTAA TGACTTCATT CTATATTATT TTGTTAGGTT GCATAAAGAA GCAAGGAATT 120
 GTACTTGAT TAAAAGATGA GGAAAGCTAT TAGGNTTATT GGNCCATGCC TGAAATNGGG 180
 CCTTGCCCG TTTAAAGGAA AGGTTGGCCC NTTTTTNAAG GGGCNTTNA TNTGNNTTN 240
 TTTTAACCAN 250

(2) INFORMATION FOR SEQ ID NO: 7358:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 112
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08599
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7358:
 GATCTGGCTT NGCCCTAAGC NNCTTAGGNA CAGAAGAGTC CATGGGGGCA TGGCACAGAG 60
 CTGGTCCTGT ATTCTCCAGG GTCCGGAGCT GGCCAGGGGC GGGGAGGAGG NN 112

(2) INFORMATION FOR SEQ ID NO: 7359:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 386
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08600
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7359:
 GATCTTATTT NACTTCATCC TTCTTGTAAC CATATTGTNA ATCAGGAAAG CTCAATCAGA 60

TACAAAAACA GGAAATTCGT TAAAAGTAAC GTTTGTAGAA GATACTAGTT GAGGAGGAGA 120
 GACTTTTNAG AAAGCCTGTG TGTGTTTGTA ACACTCTTGT GACCGTGCCA AGAAAACGTA 180
 AGCAAATATC AAGCCTCCAA ATCCTAATGC AACANGTCCT GANTCCCTTG CAGGTATGTC 240
 CTGGATGATG ANTACACAAG CTCAGTAGGC TCCAAATTTT CAGTCCGGTG GTCCCCACCG 300
 GANGTCCTGA TGTATAGCAA GTTCAGCAGC AAATNTGACA TTTGGGCTTT TGGGGTTTTG 360
 ATGTGGGAAA TTTACTNCCT GGGGAN 386

(2) INFORMATION FOR SEQ ID NO: 7360:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 341
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08601

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7360:

GATCCGGGNA TTATACAGGT ACTGTTGGAA GTATCTTGGG GATTTTCCTG ATAAGAACAG 60
 TAGTGATTGN ATAAAAAGGA CAGGATGTAA AGTGAAATCA GTAAAATATC TTAGTAGACA 120
 GAGGGTGCTG AAATTTTAAC AAATGTGTAA AAAGTTCTTC CTATGCATTA ATTTTCCAGA 180
 TACCCTTAAA ATGTTTAAGG AATGTAATTC AAAATACTGT TTAANAGAGA CATGTGACCA 240
 TCATTCTCCC AGCGAATGTG AATCATTTAG TGNGCTACTC AAAATTAGGN GTAAATGTAT 300
 ATGTACACTA TAAGANTAAN ANTCGNTACC ATTTCTTTAA A 341

(2) INFORMATION FOR SEQ ID NO: 7361:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 92
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08602

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7361:

GATCCGTCAG NCGACTCTAA AGCTAATTGT TTGTATTGGC ATGGNTTTTG CCAGGCATCC 60
 AAAATTCAGA TTAAACAACC AATGCAATCA AA 92

(2) INFORMATION FOR SEQ ID NO: 7362:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 359
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08603

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7362:

GATCTCGTCT GAAACAGTGT TTGGAAGTGG GAACAGTTTT GTCCTGTATG CTGATGTGTC 60
 CAGAATTTCA TTTAATGATA GACGGAAAAT GTGTGGTTAC TGAAAACGTG ATATGATACA 120
 GAATTTTATA AGAGCCATGC TGTGTTGGCAA AGCAACTCTT TTTCAACCAC TGCTCATCAG 180
 TTTCTGTAGA GACAAAAACT CTGTACATAT TTTGGAATCT GAAGAATCCT ATGTAAATCA 240

TTTGTTACTT AAGTCTGTGA AAAACATATT TCTTTGGAGG AAAATGTATG CATTTATAAG 300
 TGTTCATGG AATCAQTTTT TATTGTATCG ATATAATTGT CTCTAAGTGT TGA CTGTCN 359

(2) INFORMATION FOR SEQ ID NO: 7363:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 273
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08604

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7363:

GATCTCCTTA CACTGCTATT CCAGAGGAGA AGNCACCAGG TCACTCAACT CTTAGTATCA 60
 TCTACTGGAA ACTGGCTAAG ACAGTATTTA TGTGCTTCTC TCACAATAAC AGGAAGATAN 120
 CTATATCACA CAATGGATAT GGCAGTTGGC TTGACTGCAG TAATCATTTA ACTATGTATA 180
 TGTATATCAA AACATCATGT TGCATACCTT AAATATGTAC AATAAAAATA AAATCTAAAG 240
 GANATAANTT AANATTACCT TCCACCAGGC AAA 273

(2) INFORMATION FOR SEQ ID NO: 7364:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 358
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08605

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7364:

GATCAGGGAT GCAGTACCAC TTGCAGTCAA ATGAATTCCT TCGAAATGTA TTTNNACTTG 60
 GACCCCAAGT GATGCTTGAT GCTGCAACGC TTAACACGAT GAAGATTTCT CGTTTCGAAA 120
 GGCATTTATA TAACTCTGCA GCCTTCAAAG CTCGAACCAA AGCTAGAAGC AAATGTCGAG 180
 ATAAGAGAGC AGATGTTGGA GAATTCCTTCT AGATTTTCAG AACTTGAAGA CTATTTTCTA 240
 ATTTCTATTT TTTTCTTAN TTCAATGTAT TTAAACTCTA GACACAGTTT TTATCCTGGA 300
 TTAACCTAGA TAACTTTTGT AGCAGTGGTT ATATTGCTTA TAATTTAATG TACAATTN 358

(2) INFORMATION FOR SEQ ID NO: 7365:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 263
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08606

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7365:

GATCTACNGT GAATATAAAA TGTATTAGC CTTATCAAAT AAATAAATGA GCANAGCTCT 60
 TTGTTGCGTC TATTGAACTG GGTGATAATN ATTTAGATGT GAATGTTAGG TCAGTTCTAC 120
 TGTAATAACT AATCGTAAAA GTTGTAATN TGTTTAATGG ATGAAATGTA CANTTTTTGT 180
 ATTCTNTACA GCTTTGTCTT TTTTAAATAT GAAGTACTTA AATGTACTTA CTATGATAGG 240
 AAATATAATG TGTGCCTTCT AAA 263

(2) INFORMATION FOR SEQ ID NO: 7366:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 366
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08607

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7366:

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GATCTAAGTA AAATGTTTTG AAGTTTATCA GAAACTAAAT GTACTTTTAA AACGTATAGG 60
GTCAGGGTTG GGGGAAAAAT ACAGGTATAG TAAGNAAGAA AAGTGACCCA TGAAGAAAGC 120
ATCGTGAGGT TGTATGTTGG TTGACTGTGA TTAAATGCG GGGCTGGTGT AAGTTGTAAG 180
TGGTGGCTGA TTGCCGTGTA ACTATGTACA TGATTGTTGG GATGGCTGTC CCATATTTTG 240
TATATTGGAA TAAAAATTTT TATAANTTAT NGTAACTAAA AGTAAATATT CTAAATTAAG 300
TCCCACTNCT TAAGTCACAT GGCTTCTGTC TTGGGAATTT TACCTTTTAA NANGATTATT 360
TTNAGN                                           366

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(2) INFORMATION FOR SEQ ID NO: 7367:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 378
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08608

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7367:

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GATCTTGGCT GTTCTTTCTA TTCTGCCAGC CATCTTCCAA AAAAACTAA AGCAGAAATT 60
TGAGTAAAAA TAATCATCTG ATTTTAAGTT TTGCTGTCAT CACCATCTCA GGATTAACAG 120
CTGCGACTTT AGGTGGGGTA TATTTTCTTC TCCTAAGAGA ATAGACAGTT TTTCCAGATT 180
CATCATCATT GACTGTCAAG AAAGGACCTT TCAGCAAGGC TGTACCNTCA ATGCAGTTGA 240
TGGCCTGTNT TCACGGNTTT ACAGACTTGG CCTGATGCCC ATGTAANTTC AAGCTTTGGC 300
TTGTGGNAAC AACCACANGG ANGCAAGGC ATCTGTNGGT GCGGGNGGGC AAAGCAGGCT 360
TANCTNGGGN GGTGACN                                           378

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(2) INFORMATION FOR SEQ ID NO: 7368:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 421
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08609

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7368:

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GATCTAGAAA CCCTTTTACC TGGCCCCAAG GCTCTAGCCA GTGGTCTCTG GTGACCCCTG 60
CAAGCTCAGA GATGGGGNTG TTGTGTGCCA GGCATGAGCT TCCCCAAGAG GCAGAGGGCA 120
TACATCCCAT TTATACATTC CCTAAGCCCA CCCCTGTNTC CTCAGGCACC ACCTGCCCTG 180
GTCAGCTCCA GCCAGTCCCT GCTGGAGTGG TGCCAGGAAG TNACCACTGG CTACCGTGGG 240

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GTCCGAATCA CCAACTTNAC CACATNNTGG CGCAACGGCT TGGCCTTCTG TGCCATCCTG 300
CACNGATTNT ACCCAGACAA GATGTGAGCT GCCAGAGGGG TGGGACGAAT GGGGGAGCCA 360
TCAGGGAGGG CAGTNTGGAC CCAGCTTTGA CCAGANAATT TTTNGAGTGC TTTGCTNGTT 420
N 421

(2) INFORMATION FOR SEQ ID NO: 7369:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 189
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08610

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7369:

GATCAGCAAT GAGTCGGCAA TTGACTTCTA CAGGAAGTTT GGCTTTGAGA TTATTGAGAC 60
AAAGAAGAAC TACTATAAGA GGATAGAGCC CGCAGATGCT CATGTGCTGC AGAAAAACCT 120
CAAAGTTCCT NCTGGTAAGA CNNCAGNTGT NAAAANGCCA GCAACCTGNC CAATTTCCAN 180
TGANCCTTN 189

(2) INFORMATION FOR SEQ ID NO: 7370:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 147
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08611

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7370:

GATCTGGTGG AGAAAAGAAG CAAAACCTTG TTTTAATTGA CTGTTTTTTT AAAATCTTTT 60
TGGATATTGT TTTGCATCCC ATACATTTGC AACTGGCAAT GAAATGTAAG CTTTGTTTCT 120
GAAAAAAT AAATGTAGCT ATTCAAA 147

(2) INFORMATION FOR SEQ ID NO: 7371:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 108
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08612

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7371:

GATCCACATG CNTGTGGCAG CCAAGGCTT TGTTGTAGGA GCAATGACTN TTGGTATGGN 60
CTATNCCATG TATCGGGAAT NCTGGGCAA ACCTAAGCCT TAGAAGAN 108

(2) INFORMATION FOR SEQ ID NO: 7372:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 273
- (B) TYPE: nucleic acid

(C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08613
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7372:
 GATCTTTGAG CTGTGGTTTC TCCACCTGTG GAATATAAAT GTNAACAACA TAACCTTCTT 60
 TCTAAGGATA ACTTGAGAAT TAACAGTGCA AGTAAATGGA AAGTATAGTA CCTGTNACCA 120
 GATATTTAAT AGTAGTTATT ACGAAATTGT AACTCACTAC CTGTNTTAGT TGAGGTTTAT 180
 CTTTCAGCCAT GCAAATCAAA ATCAGATTAT TTNCACATCA GCAGATAAGG TTTGTNTGAG 240
 ANTCTNATTT TNNATTTGNT ACTCTNATTT NNN 273

(2) INFORMATION FOR SEQ ID NO: 7373:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 419
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08614
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7373:
 GATCACAGAT GTAGTTCCTG AGGTTGAGTC TCCTTCTCAG ATGGATGTTG AATTGGTGAG 60
 TGGGTCTCCT GTGGCACTCT CACCCAGCC TCGATGTGTG AGGTCTGGTT GTNAGAACCC 120
 TCCCATTTGT AGTAAGGACT GGGACAATGA ATACTGCAGC AATGAGTGTG TGGTGAAGCA 180
 CTGCAGGGAT GTATTCTTGG CCTGGGTAGC CTCTAGAAAT TCAAACACAG TGGTGTTTGT 240
 NAAATAGTCC TTCCTGTTCT CCAAGCCAGT GAAGAGTTAT CTGCTGGGAA AGTGTCCAAG 300
 AGCCTGTTTT TGAAACACAA GCTGGGCTTC TGGTAGTGCC TCATCACAAAC CCATGATGGC 360
 TGTTTCATGGT TTCACCCCTT TTNTTTCNT CAGCAGAGGC CAGGCTATTG GAGCAGTTN 419

(2) INFORMATION FOR SEQ ID NO: 7374:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 209
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08615
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7374:
 GATCCTAATT TGCACACTAT CACCTAAAGT CCTAGCATAC CTGCATTTCC AGGAAATCTA 60
 ATGAGAAAGA AGTCCTGAAA GCCTCTAATT CCTGGAAACA TATGAAACGG CTAGAAAAAA 120
 GTAGACTATT TTGGAGGATT AAAGACAATG GAAACTTTTT ACATTGTTTG TCTCACATAA 180
 TGAATAAAAT TCCACTTTAA AAAATGAAA 209

(2) INFORMATION FOR SEQ ID NO: 7375:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 422
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08616

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7375:

GATCCGCAGC TCGAAAAAGA ACAAGCCACA GAANCGGGCT CGCTCGTGCC AGGACACAGC 60
 AGTGTCTTTA AAAAAATCAA AACCAGAAGT TTTATCAGCA GCAGGAAGNN TGTGGGACTC 120
 TGTCCAAGTT CACCGTCACC ATCAAGCCAC TGGCTGTGGA AGGAGTTTNT CCAACAGGGT 180
 CAGTGTACACA GCCACAACCT CAGAAAGCAG CCATCCCGCG TGTCGTCCAA ACAGCAGTGC 240
 CTGCNTCCCG CTCCACGGAG TGTTCCNGAA CACCTCCCTC TGAACATAAT CCGGAGCACC 300
 CCACCCCCAG CGAGTCCCAC CTGGACCTNT TCAAAGTCAA AACTCTTCTT TNGGGCCAAC 360
 CAATTNTTCG GGCTTTNGAG GCCTTGAAC TGGGGCACCA AGTTTNTTTC CATGGGAANT 420
 TN 422

(2) INFORMATION FOR SEQ ID NO: 7376:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 413
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08617

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7376:

GATCCACCA GTTCTGGAC GTGGAGAGTC TGGGGCATCT CCTTCTTATG CCAAGGGGCG 60
 CTTNNNGTTT TCATGGCTGC CCCTCCAGAC TGCGAGAAAC AAGTAAAAAC CCATTGGGGC 120
 CTCTTGATGT CTGGNATGGC ACGTGGCCCG ACCTCCACAA GCTCCCTCAT GCTTCCTGTC 180
 CCCCCTTAC ACGACAACGG GCCAGACCAC GGGAAGGACG GTGTTTGNT CTGAGGGAGC 240
 TGCTGGCCAC AGTGAACACC CAGTTTATT CCTGCCTGCT CCGGCCAGGA CTGAACCCCT 300
 TCTCCACACC TGAACAGTTG GCTCAAGGGC CACCAGAAGC ATTTNTTTAT TATTATTATT 360
 TTTTAACCTG GACATGCATT AAAGGGTCTA TTAGCTTTCA GAAAAAATA ATN 413

(2) INFORMATION FOR SEQ ID NO: 7377:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 157
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08618

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7377:

GATCCACAAA TGAAAGGGAT ATAAAAATAA TGTCATAGGT AAGAAACACA GCAACAATGA 60
 CTTAACCATA TAAATGTGGA GGCTATCAAC AAAGAATGGG CTTGAAACAT TATAAANTT 120
 GACAATGATT TATTAAATAT GTTNTCTCAA TTGTAAA 157

(2) INFORMATION FOR SEQ ID NO: 7378:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 399
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08619

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7378:

GATCCTAACA GCTTGCATTA TTTGGTGCAT CTGCTCAATC AAGTCTAATA GACACAAGGA 60
 TGGCTTTTCAT CGGCTCAGGC AGCATCATGA TGAGTATGAA GATGNAATTC GCATGATGTC 120
 TACCGGCTCC AAGAAGTCCC TCCTAAGCCA TGAGTTCCAG GATGAAACAG AACTGAAGA 180
 GGAAACATTA TATTCTAGCA AACATTGGNG GNCACATTTT GCATATCTCC CAGCATAAGT 240
 ACCAAGCAAA ATTACAGTTC CTCTTGGGAG AACACTGCAT TAAGGATGCG AGACTCTCTT 300
 GCTTCTTCAA AGNGCTTTTG GGAATTTAAA TTGCTAANTA TGTATTCTCA AAANAANNNN 360
 NGGGANNTTT GGGGGGNNTG GGTTTTNCGG AGNGANGNN 399

(2) INFORMATION FOR SEQ ID NO: 7379:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 34
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08620

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7379:

GATCGGTCCC TAAACCTCAT TAAAATATTT GAAA

34

(2) INFORMATION FOR SEQ ID NO: 7380:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 405
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08621

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7380:

GATCTNATGG ATATGGCAGT GGACGTGGAT TTGGGGATGG CTATAATGGG NATGGAGGAG 60
 GACCTGGAGG TGGCAATTTT GGAGGTAGCC CCGNTTATGG AGGAGGAAGA GGAGGATATG 120
 GTGGTGGAGG ACCTGGATAT GGCAACCAGG GTGGGGNCTA CGGAGGTNGT TATGACAACT 180
 ATGGAGGAGG AAATNATGGA AGTGGAATTT ACAATNATTT TNGAAATTAT ANCCAGCAAC 240
 CTTCTAACTA CGGTCCAATG TNGAGTGGAA ACTTTGGTGG TAGCAGGAAC ATGGGGGNAC 300
 CATATGGTGG AGGAAACTAT GGTCCAGNAG GCAGTNGAGG AAGTNGGGGT TATTGTNGGA 360
 NGNGCCGAT ACTGAGCTTC CTTCTATTT NNCCATGGCA TTTNN 405

(2) INFORMATION FOR SEQ ID NO: 7381:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 261
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08622

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7381:

```
GATCCTAGCC AGATTACCAG AAATTNCGTT AGTCATCTAA ATCAGAGACA TCAATTTNAT 60
TATGGAGAAT TTNTGAATCT CCAGCTAGAT GANGAAACCC AATACCAAAC TCCTGTTGAA 120
GAATCTTTNC AAGTAAACAT CTGAAGGCTG TAGACATCTC TCCATCTTTG TACCTGCAAG 180
TCCCATCTTT AAGGGGGAAA CTACATGANG TCACCGTTAC AGTAACTTGA TGTGTATATT 240
AATAAAAGTA ATTCAGTCAA A 261
```

(2) INFORMATION FOR SEQ ID NO: 7382:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 44
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08623

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7382:

```
GATCTATGTA TAGATAAAGA TTAAACATAT CTAGTACAAG GAAA 44
```

(2) INFORMATION FOR SEQ ID NO: 7383:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 109
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08624

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7383:

```
GATCTGTTTC TTAAAGCTAC AGGGTTTAAA AAATAAAAAT GAGTGAAAAT ACTTGATGTT 60
TCTTGAAAGA TAAATTTAAT AATAATAAAT AAATACATAA ATACATAAA 109
```

(2) INFORMATION FOR SEQ ID NO: 7384:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 93
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08625

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7384:

```
GATCATTGTG GCGTCCACAA TGTATATATA AAACAAGTTG TACACATTAC CATGTATAAA 60
TTTGTGTTTG TCGATTATAT GTCAAGAAAG AAA 93
```

(2) INFORMATION FOR SEQ ID NO: 7385:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 54
(B) TYPE: nucleic acid
(C) STRANDNESS: single

(D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08626
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7385:
 GATCTTAATC TTATTCTCTG CCATCTTCAA ATTAAAAAAA AATTTCCTTG TAAA 54

(2) INFORMATION FOR SEQ ID NO: 7386:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 140
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08627
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7386:
 GATCCCTTCA GAAGAAGACA TGATAGGATT GTAAGTTTTT NTCTAACTTT GGATGCAGTG 60
 AGATGACCAG TGTGTTCCAG TTAAAGAAGA AGAGTGTTTT AAAATCATAA ACCAAATAAA 120
 GAATCCTACC TTACATTAAA 140

(2) INFORMATION FOR SEQ ID NO: 7387:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 206
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08628
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7387:
 GATCCACCCA CCTCAGCCTC CCAAAGTGCT GGGATTACAA GCGTGANCAC TGTGCCTGGC 60
 CCTTTTTTTTT TTNAAAGAGA TGGCATCTTG CTATGTCGTC CAGGCTGGTN TTGAACCTCCT 120
 GAGTTCAAGC AGTCCTCCTG NTTCAACATA CAGNTACAGG TACCCCCCAC TATACATTTT 180
 NAATANGGNT TCATGGNTCA GNGGGN 206

(2) INFORMATION FOR SEQ ID NO: 7388:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 130
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08629
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7388:
 GATCCCATTG CTTTCCTGTT TAAAAAATAT TTTATGCTCT TTATTTCCAC TTCTGTGAAT 60
 GTGATATTTT TATTTTNTGA TTATGTTACT GAATAAACAA ACTTGCTACA TAAATNCTT 120
 AGCAATTAAA 130

(2) INFORMATION FOR SEQ ID NO: 7389:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 355
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08630

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7389:

```

GATCCAATTG TGGATTTATT TACAAACATC AAATGCCTTC AAGCCAATCC TTTTGTCTGT 60
ATGTTTTGCA GCCTACTGTA GTAGATACGC AACAGATAAT GTGGGAAAAA AAGAGATAAG 120
AGGAGGAAGC TAATAAGAGA CTGTCAAGAT TGTATACCTT CTTGGTTTCT TTTAAGAATT 180
TGTTGCCTTT NTACTATNNC AGCAAAGCAG CATTTTGTGA CTGACTGCCT AAAATCACTT 240
AATCTCAGGT GAACGCATCA CTTGCCAAAC TGTTGGAATG CTATTTGTGT TTTGTTGCAC 300
TGTTTTTTTC GTTTGTTTGT TTGTTTATTT GGTGGCTTT TTGGAGAGGG AAATN 355

```

(2) INFORMATION FOR SEQ ID NO: 7390:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 96
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08631

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7390:

```

GATCTAAAT NAGAGAAGCA TTTAAAAAT NATTTCTGTC TTGTTTCATC TTATTGTTAG 60
TGGTTTATGC TAATAAAAT TGATTTAACA ATCAAA 96

```

(2) INFORMATION FOR SEQ ID NO: 7391:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 411
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08632

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7391:

```

GATCCAGATA TGTCTGTTAT GAAAGATATC AGTATAGGTA AAGCCACAGG CAGAGGTCAG 60
TACTGATAAT TAATGTAGTA TAAATACATC ATTTACCATT TTATTTTAAA TAGGAAGCCA 120
TCAAGCATGC TAGAATTGTG AACTTTCATT ATATNTTTTT GTTGTTGACA TGAATTAACC 180
TGGCCAAAAA CAAAAAGAA NNAAAAAACC ATGCCATTTG TCATGTAAAC CTTTTTTTTT 240
TCCCTATGGG CCTTNGGGGN CNGAATCAGT ACTTCAGTTA TTGTAATNGT GNGCTAACCT 300
CAAATTTNTN TCACCCNGTT GCCCTTTTCA TGNCTAACCC AATTNTCTGG GGGNTTGGTA 360
TGGTTCNCCC GGTCTGNTC ATGTTTACCG NNCTCTTTT TNGNGGTCC N 411

```

(2) INFORMATION FOR SEQ ID NO: 7392:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 248

(B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08633
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7392:
 GATCTAAGTT CTAAGCCAAA TAACTAACAA ATTCCAGGTA CTATGCCATC ATATAATATT 60
 TATAAATGTG TTATATATAT TATGAGATAT GTATAAGAA ATAGAATGAA TATGTAATAA 120
 ATTATACTTT TAAATTAATA TTTTCAAATA TATAAATATG TAGTTTCAGA CTGAAACTGT 180
 TCTAAACTAT ATAAATGTAT TATGTATGTT TTATAAAATA CAGTACTCAT AATATGTATT 240
 ATATGAAA 248

(2) INFORMATION FOR SEQ ID NO: 7393:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 247
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08634
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7393:
 GATCCTTCCA CCTCAGCCTC CCCAGTAGCT GGGACTACGG GGTCCGCCACT GCACCCAGCC 60
 TGTGTCTTCC AGCTCTAATC AGAAAGCTGC TTGTCGAGGG CATGGGGAAT CAAACTGAAT 120
 GAACTTTTCT CTGCACTGTG GCAAACTGT TATTTTATG GATTTTACTA AATGGCGTTA 180
 CCTTTTCAAG ATTTATATGT TTGTATAATC ATAAGAAAAT TGAGCCATTA AAGCCTTGTT 240
 ATTCAAA 247

(2) INFORMATION FOR SEQ ID NO: 7394:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 108
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08635
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7394:
 GATCCAGGCT CGTAGNTCAC TCCCTGCCCCG TNTCCAGAG ATGCTTCACC ANCACCTGCC 60
 TCTGAGACCT CGCTCTCTGT TCCAGCAACC CTGGNTTGGG GGGTCANN 108

(2) INFORMATION FOR SEQ ID NO: 7395:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 61
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08636
 (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7395:

GATCTTGAGC TCCTGGCCTC CAGAATTGCA GGAGAATAAA TNTGTGTTGT TTTTAATGAA 60
A 61

(2) INFORMATION FOR SEQ ID NO: 7396:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 275
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08637

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7396:

GATCAGTGTT TGNTTGGGAC TGAAGGGATG ACTAATAAGG AGCAGAGGAA AGCTTTTGGG 60
GATGATGGCA CTCTTCTCTG TCTCCATTAC GGCATTGGAT ACAAGTCTCT AGAACTCCCA 120
GAAGTCGTCA CTGAAAGGGG TGAATAGTAC TGTATGTAAA TTAGGTCCNN ATTTTNAAT 180
GGGANAAATA AATATAAGA CAAATTACAC TGCTGTATTA NNTCANNTGA TAGATGTAAA 240
AGTCTAATAT ATACGTNTTT TTCNTGATAN NCCCN 275

(2) INFORMATION FOR SEQ ID NO: 7397:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 288
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08638

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7397:

GATCCACGCC CTTCCCGCCA GTCTGGAGAG GGCCCTGACC GAGGACTCAA CCCAAACCAG 60
TGACACAGCT ACCAATTCTA CTTTACCTTC TGCAGAGGTG GCGTTACAGG CAAAGTGAGG 120
AGGGAGCTGG GGGACACTTT CGAGCTCCCA GCTCCAGCTT CGTCTCACCT TGAGTTAGGC 180
TGAGCCACAG GCATTTCTCTG CTTATTTTATG GATTACCCAC TCATCAGAAA AAAAAAAG 240
GCCTTTGTGN CCCNTGTTTT GGGGGGATTA ACCNGTTTTG GGTTTAAA 288

(2) INFORMATION FOR SEQ ID NO: 7398:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 290
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08639

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7398:

GATCTAATTN CTATTTTATT TATTAGAAA TAGCATTTAG ACATAAAANC CAATGTCTCA 60
CTTTGTAAAA TAACCTTTGG CTAATTTACA CACATCTAAT ACAGCGTGTT ATATAAGTTT 120
TAAGTAATAC AATGAGTCAC TACTATCATT CAGTTTTAAN TATTTTNNGT GTTAACAGGG 180
CTGAGAATAT CATGTGGTTC AGTCTTCTGN NGGNCGTTAT ATNATACCNG CNTAGTGCCT 240

TTGACCATGC NGA CTATCCT CAAGGCCAGA CATCCTACAN CGGAACTGNN

290

(2) INFORMATION FOR SEQ ID NO: 7399:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 267
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08640

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7399:

```
GATCCNTAAG TACTCTTCTC TANAGAATAA AATGCATTAC CTAGGCTTTA ATAGTTAAAA 60
GCTGGNATTT ATNGACCCGC ATCTACTTGA TTTCANAATA TGCATTGATT TTAGTATGTT 120
GCTGNTCTGT TATCTGTACT CAACTATANC AGAGTAATAT ATTGTGGTNT TCTGGACCAA 180
AANTCGTGCT ACACATATGT CTGATGGCCT TNACCTTTTC ANGACAACAG TTGCAATTTT 240
GAGCACAGTC CNCCTAGTGG TANTCTN 267
```

(2) INFORMATION FOR SEQ ID NO: 7400:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 127
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08641

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7400:

```
GATCGGGAGC AGCCCCACTG GACCTAGGTG CCCCATCTGT TGGTCATCCA TCCTGAAGGG 60
ACAGGAAACC TCCAGGCAG TTATTTTTTT TTCTCTATAT TTCTAGTAAA GTTTTCGATA 120
TGTTAAA 127
```

(2) INFORMATION FOR SEQ ID NO: 7401:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 168
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08642

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7401:

```
GATCACTAGT GCAGGAGAAC ATTACATTTT CTTCTGAAGG CAAAATGCTT GTAGGTTTTG 60
CCTCTACTTT GTATTTACTT TTAAAATTGC ACTTGTTTAC CTACCAAGTGT TTACGAAATC 120
CTGTATTTGG GATGCTTTTT CTATAATAAA ATATTATAAT TTGTGAAA 168
```

(2) INFORMATION FOR SEQ ID NO: 7402:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 323
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single

(D) TOPOLOGY: linear
(vii) IMMEDIATE SOURCE:
(B) CLONE: HUMGS08643
(ix) FEATURE:
(D) OTHER INFORMATION: "N"=unidentified base
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7402:
GATCATAGTA AAGAGTAGTC AATAGGGTCT TCAGCTATTA ATTGTAGAGG TGATTAAAAC 60
CAACAAGGAG TTTCATGTGC AAAGGAGATA AGGAATGAAT ATAAAGATTG CTATTTGGGT 120
GGCTCTTATT AAACGTGTGA TTTTGTACTT ATCACTACAC GTATCCCCCA AATGCTTACA 180
TGGGAGTTTG AGGTTAGTAT TTTCACCTCC TTGGTGTTAG TACTCTATTC ACATTCTTAT 240
TGTAACCTTC CTCATTTTAC AGATAAGGAA TCTTTGGGGA TTAACCAACC TCCTTTCTGT 300
AATGGTAATC ATTAAANTAA GTN 323

(2) INFORMATION FOR SEQ ID NO: 7403:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 94
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear
(vii) IMMEDIATE SOURCE:
(B) CLONE: HUMGS08644
(ix) FEATURE:
(D) OTHER INFORMATION: "N"=unidentified base
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7403:
GATCACTTAN GCCCAGGAGG CAGAGGTCAC AATGAGCCGA AATTGTGCCA ACTGCACTCC 60
AGCCTGGGCA ACAGAGGAAG ACTCTTCACA GAAA 94

(2) INFORMATION FOR SEQ ID NO: 7404:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 226
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear
(vii) IMMEDIATE SOURCE:
(B) CLONE: HUMGS08645
(ix) FEATURE:
(D) OTHER INFORMATION: "N"=unidentified base
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7404:
GATCGGGGCT TTGTGTTTAA CCTCATCAGA CATTATTGCA GCCAGCTGTC AGCCAAGCTC 60
AGTAACCTTC CAACGCTCAT TTCCATGAGG CTAGAGTTCC TGAGAATCCT CTGTAGCCAT 120
GAGCATTACC TCAATCTGAA CCTTTTTTTT ATGAATGCTG ATACTGNTCC NACATCTCCT 180
TGTCCTTCCA TATCTTCCCA GGTAATAAAA GAATTATTTA ACTAAA 226

(2) INFORMATION FOR SEQ ID NO: 7405:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 124
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear
(vii) IMMEDIATE SOURCE:
(B) CLONE: HUMGS08646
(ix) FEATURE:
(D) OTHER INFORMATION: "N"=unidentified base
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7405:

GATCCAGTCA GAGCCAGGGA GAGTGTTTGC CTTAAGGAGG GACTCCCTTG TCCAGGATGG 60
 GGCTGGCACT AGGGATGGGG TGAATCTTAG GACAGGAGTG GGGGTCAGAA ATGGGAGGGG 120
 TAAA 124

(2) INFORMATION FOR SEQ ID NO: 7406:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 206
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08647

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7406:

GATCGACCAG CAGGTGGTCT ATATCCATCC TTCCAGTGCC CTCTTCAACA GACAGCCAGA 60
 ATGCCCCAAG AACTTCCTCC CTNTGGTTGC TGTAGGTGTC TCATTGGAGC AGTGCCTCTC 120
 CAAGTTTGAG GATNTGAACA AAGAACTGGG ACTGGTGACT TGTNANNGNN NAGTTCAGAG 180
 GGCAGAGGNC CATCATCTCA GCTTNN 206

(2) INFORMATION FOR SEQ ID NO: 7407:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 103
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08648

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7407:

GATCCATAAG GAGGGCTGTG TGGNGAAGAT TCAGGGACTG ANTAGAGGGA AAATCGTGCT 60
 ATNCGGTAGC TACAGCAGCC CTGGGAATNC CNTTTTGTGCG AGN 103

(2) INFORMATION FOR SEQ ID NO: 7408:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 116
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08649

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7408:

GATCCATAAG NAGGGCTGTG TGGAGAAGAT TCGGGNCTGG CTGAGGAAAA ANCGGCTGGT 60
 GGTAGCTACA GCANCCCTTG GAATACCCTT TTGTCGAGGT TTTGGGNATT GTCTCN 116

(2) INFORMATION FOR SEQ ID NO: 7409:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 60
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08650
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7409:
 GATCTATCAT GTATCTTGGT GATTACAGTT AATAATATAT TGTATATTTG ANAATNGAAA 60

(2) INFORMATION FOR SEQ ID NO: 7410:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 91
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08651
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7410:
 GATCGACCA CCGCACTCCA GCCTGGGCAA CAGAGCAAGA CTGTTTCAAA ATAAATAAAT 60
 AAAATAATAA ATAANNCTTT CCAACTNCAA A 91

(2) INFORMATION FOR SEQ ID NO: 7411:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 240
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08652
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7411:
 GATCTTGTTGG CTAAACCAGC ATTTCTGTGT TTGAGAGATT TCCTGTTAGG TGCTTCGTCT 60
 GAAAGTGAAC TCTCATAATT CAAATTGTAT AAANTAAAGC TACATTTCTA AGAGCTTGGT 120
 GTAGGGCAAT TGGAAATANTG TCCTGTTAGA TAAACAGACA TTTAGCANTC CTGACATTAA 180
 AAGGAAATGT ATTTCTATAC AGGATTATTA GCTGTANTAC ANGATATTTA TTTANCCAAA 240

(2) INFORMATION FOR SEQ ID NO: 7412:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 247
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08653
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7412:
 GATCGACCA CTGAACTCCA GCCCGNATGA CAGAGTGAGA CCCTGTTTCT AAAAACAAAA 60
 CAAACAAACA AACAAACAAC GTATCTTACT GACTAACTG GAATGGAAAT CTTATAATNA 120
 GTGTTGTATT TTTCTGCAAA ATAGTGAATT NGNACTTGGG AGACTTCNNN NCTTTGTTGA 180
 AAAAAATTGC CTTTGTTTTG AAATTATATC ACCTGTGTTC TGANCTAAAA TGNTGGGAGT 240
 TCATNNN 247

(2) INFORMATION FOR SEQ ID NO: 7413:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 128
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08654

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7413:

```
GATCCATAAG GAGGGCTGTG TGGAGAAGAT TCAGGNANCT GACTGAGGAA AAATNTGCTG 60
GTGGTAGNTA CAGCANCCCT TGAATACCC TTTTGTGCGA AAATAAAGGA ATTGTCTTCA 120
NCCTGCTN 128
```

(2) INFORMATION FOR SEQ ID NO: 7414:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 118
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08655

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7414:

```
GATCCATAAG NAGGGCTGTG TGGAGAAGAT TCAGGGAGCT GACTANAGGA AAAATGTGCT 60
GGTGGNANAT ACAGCAACCC TTGAATANC CTTTGTGCGA GAATAAAGGA ATTGTCTN 118
```

(2) INFORMATION FOR SEQ ID NO: 7415:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 151
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08656

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7415:

```
GATCTTTNTN ATATATGCAG TCCCATCCCT TCTGTGCCAC TCAATGCCAT CCAGACATGG 60
TTTTNCCCTC CANGGGCCTT TCTCTCCAGA GGGCACTTCG GCTGCCTCTG CTTCTCTCA 120
TTCGAGGCCG GNCTCTTNCT NACAGAATAG N 151
```

(2) INFORMATION FOR SEQ ID NO: 7416:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 374
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08657

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7416:

```

GATCCCGTTG CCTCATGGAA CTCATGCATT TCACGCTGCT TGCCCTTTCT GTGCTACACA 60
GCTGGTTGGG GNGCAAACT GCATCAAATT AATTTNCCAA GGTCCAATTG ACTGACGCCC 120
TTGACAGCCA TCTACGACTT TATTAACAGG TTAGTGTGAA GATTTTNCCA CTAAGTCTAG 180
ATTTTNCCTT TTTGTAATGC TGTTTATCAG AGGCGGGTGA CANGGGCTGG AAATAAAGNG 240
AGGGGACATG GTGATGAAAC ATGGCAGGNG TGTACAGATA CCAGTGGTGT GTTGCATGCT 300
CAANACAGCA GCGTCGTCAA TGGCGTCTGC TTGNTTGNNC CATNATGTCT TTGTCATAAT 360
TGGNAANNAA NNNN                                     374

```

(2) INFORMATION FOR SEQ ID NO: 7417:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      110
(B) TYPE:        nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

```

(B) CLONE: HUMGS08658

```

(ix) FEATURE:

```

(D) OTHER INFORMATION: "N"=unidentified base

```

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7417:

```

GATCTTTATG TCACTAGTTA TAGTTAAGTT CATTGAGACA TAATTATATA AAAACTACGT 60
GGATGTACCG TCATTTGAGG ACTTGCTTAC TAAACTACA AAACCTCAAA          110

```

(2) INFORMATION FOR SEQ ID NO: 7418:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      232
(B) TYPE:        nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

```

(B) CLONE: HUMGS08659

```

(ix) FEATURE:

```

(D) OTHER INFORMATION: "N"=unidentified base

```

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7418:

```

GATCTTTTAA ATTGAGTACA ATCTCTGAAG GTGTTAACAC TAATNTTTTA CAAGAATGTA 60
GAGGCGACTC GGTGCTATGA AGCGTGTTAA ACAACTCACA CAATTGCTAC AAAACACCAG 120
GGAGGGGCTT TTTGTGTTTT TAATTTTTAA AACATTTTTC CTTTTCTTGT GAGCCATAGT 180
AGGCCTAGAG AGATTACTGG GTTTTTATAA TTAAACATTT ATTCGGTGA AA          232

```

(2) INFORMATION FOR SEQ ID NO: 7419:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      370
(B) TYPE:        nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

```

(B) CLONE: HUMGS08660

```

(ix) FEATURE:

```

(D) OTHER INFORMATION: "N"=unidentified base

```

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7419:

```

GATCTTAACC AGTCGAGTGG AGTGTACATT GTCTGAATAC AGGATGCACA ATGTTGTCAA 60
TCCTGGAAAT GGTCTTTCTT TTTTGTAAGA TATGTGAATG AAGTGTGTTGGT GTCCTCACCA 120
AGAGGTGGCA CCTAAGGGTT CTGAGGAAAT AAATGTATAG ACCCTTATGT ACAGACCTGT 180
GTATAANCAN CTNNNGTATA TACATATAAG GATAGCTTTT TTGACCTATA CAGCTGTNCA 240

```

TAAAAGTAGC TGATATTAGT TAGGCCTGTG TCACCAGTTT GGNTTTTTTN CACTGGTNCA 300
 TTTGGGATTT NNTTTTNGGT GGTTTAAAT GGCATATGCT AAGGTGTGTG ATTGGGAANA 360
 AANNANNANN 370

(2) INFORMATION FOR SEQ ID NO: 7420:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 83
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08661

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7420:

GATCTGTGTT TTAATGAGTT TCACAGTGTG ATTTTGATTA TNAATTGTGC AAGCTTTTCC 60
 TAATAAACGT GGAGAATCAC AAA 83

(2) INFORMATION FOR SEQ ID NO: 7421:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 394
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08662

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7421:

GATCCTCTCT TACCCCGTCC CCAGGTTTGA AACACATAGC CTCATTTCAA GGTGTAGCCA 60
 GGTTCCCCCG ACTTTCCTCT GGGATATAAA AAAGGGGGTA AGGGGGCAAA GAGAGCCCTC 120
 TGGGACTCTC CTCCCATACA CACTACACTG CCCCTTCTCC CCCCATCAAA ACGCTCAGNG 180
 ACGTTGTGAT GATGCGACTG AGGATTATGC AACGTGGTCC AACCGGAGCG GNCAGCATGA 240
 CCAGCTGTCC AGGGGCTGNC TNCTGCCTTT TCTTTTGTAA AAGCCANGAC CCTTGGGGAG 300
 TTTTAATNCT GTTTTGTACT TGNCCTGTGG GGNCNCACT TGCTTTTTTCT ATGGGAGACA 360
 CTTTNNAAAT TTAACAAGNT GNGGGTTTTT TGNN 394

(2) INFORMATION FOR SEQ ID NO: 7422:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 134
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08663

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7422:

GATCCCCATG CCTGAGGGCC CTCGGCTGG CCTGGGCATG TGATGGCTCC TCACTGGGAG 60
 CCTGTGGGGG AGGCTCAGGT GTCTGGAGGG GGT'TGTGCC TGATAACGTA ATAACACCAG 120
 TGGAGACTTG CAAA 134

(2) INFORMATION FOR SEQ ID NO: 7423:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 69
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08664
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7423:
 GATCATGNGT TTCCTCATGA GGACAAATAC CTGATTTTGA ATAAAGCAGC ATTCAGTTGA 60
 AATAACAAA 69

(2) INFORMATION FOR SEQ ID NO: 7424:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 52
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08665
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7424:
 GATCAACATT TTTTAAAAA GAGCATTAAG GAAAGAATTG TGGTACAATA AA 52

(2) INFORMATION FOR SEQ ID NO: 7425:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 356
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08666
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7425:
 GATCACACAT TCAGACTGTT GTGTCTGTGG AGTTTTAGGA GTGGGGGGTG ACCTTTCTGG 60
 TCTTTGCACT TCCATCCTCT GCNACTTCCA TCTGGCATCC CACGCGTTGT CCCCTGCACT 120
 TCTGGAAGGC ACAGGGTGCT GCTGCCCTCT GGTCTTTGCC TTTGCTGGGC CTTCTGTGCA 180
 GGACGCTCAG CCTCAGGGCT CAGAAGGTGC CAGTCCGGTC CCAGGTCCCT TGTCCCTTCC 240
 ACAGAGGCCT TCCTAGAAGA TGCATCTAGA GTGTCAGCCT TATCAGTGTT TAAGATTTTC 300
 NTTNTATTTT TAATTTTTTT GAGACAGAAT CTCACTCTCT CGNCCAGGCT GGAGTN 356

(2) INFORMATION FOR SEQ ID NO: 7426:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 246
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08667
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7426:

GATCGTCGCC CCTCTGCCAA CTGCGACCCC TTTTCGGTGA CAGAAGCCCT CATCCGCACG 60
 TGTCTTCTCA ATNAAACCGG CGATGAGCCC TTCNAGTACA AAAATTAAGT GGACTIONAGACC 120
 TCCAGCTGTT GAGCCCCTCC TAGTTCTTCA TCCCACTCCA ACTCTTCCCC CTCTCCCAGT 180
 TGTCCCGATT GTAACCAAAA GGGTGGAATA TCAAGGTCGT TTTTTCATT CCATGTGCCC 240
 AGTAAA 246

(2) INFORMATION FOR SEQ ID NO: 7427:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 286
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08668

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7427:

GATCCTTGCA GGAACCTAAG GATTACAGCA GCTGCAGATG GCAGGAGCTA CAAGCCAGCA 60
 GCAGCCAATG CTCANTGGGG TACAAATGGC TCAGGCAGGT CAACCAGGGA AAATGCCAAG 120
 TGGAATAAAA ACCAACATCA AGTCGGCTTC CATGCATCCC TACCAGCGGT GAGTGTGGCT 180
 GGCAACCTCG ACTCCCTGGT GCTCTTTGCA GAGTTGGGCA GTGAAATNNN NNNNTGCTCA 240
 AGGCTCACCT AGGATGGGTA CAATAAAAAG AACATGGGCT TTCAAA 286

(2) INFORMATION FOR SEQ ID NO: 7428:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 177
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08669

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7428:

GATCACTAAC AGGTGATGGG CTTTGTGCCC ACTCCAGAGA TATTGTGGGA GACAAATTCT 60
 TTAAACAGCC TGTCTCCCG GCATCAGGAG TCATTGAACA ATCATGGATT GTTGTGTTTG 120
 GGATTTTTTT TTTTNGGN TTNNTTTTGG GTTTNGNGN GTGTGTGTGT GNCCTGN 177

(2) INFORMATION FOR SEQ ID NO: 7429:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 388
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08670

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7429:

GATCCAGGTG GTCCAGGAGC CCAGGACAGG CCTTTNCTGT GGGCCCTGGC CAGACAGGGT 60
 TACCTGGTGA GGTGCAGAGA GTCCCTCTAG TGGCCATTTT GTATGGTAGT TGCTAATGCA 120
 GAACAAGTTC TGTCTTGGGC TTAAATTGAC TGAAGACTTT AGGGGGAAAG AATAGTAAAT 180
 GCATGTAAAC AAATGGGGAC ACTCTGTTCA GGAGAATAAT CCGACTGGCA TTTGTGGCAG 240
 TTTTGTAAAT GTAAATGTAT TCATGTGTGT TCTTGTAAT ACGTGTGCT CAGATGTCCT 300

TTGAAGTGGG AGGGAATCAA TCCGGGGATA ATTTCAAATG GAATAGAGTA TTTTGATATT 360
 GTTCATTGAG AGGGTGATGT GTACACAN 388

(2) INFORMATION FOR SEQ ID NO: 7430:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 392
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08671

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7430:

GATCCCCACT GTCAATGGGG GATTGTCCCA GCCCCTCTTC CCTTCCCCTC ACCTGGAAGC 60
 TTCTTCAACC AATCCCTTCA CACTCTCTCC CCCATCCCCC CAAGATACAC ACTGGACCCT 120
 CTCTTGCTGA ATGTGGGCAT TAATTTTTTG ACTGCAGCTC TGCTTCTCCA GCCCCGCCGT 180
 GGGTGGCAAG CTGTGTTTCAT ACCTAAATTT TCTGGAAGGG GACAGTGAAA AGAGGAGTGA 240
 CAGGAGGGAA AGGGGGAGAC AAAACTCCTA CTCTCAACCT CACACCAACA CCTCCCATT 300
 TCACTCTCTC TGCCCNATT CCTTCAAGAG GAGACCCTTT GGGGACAAGG CCGTTTCTTT 360
 GTTCTGAGC ATAAAGAGGA AAATAAATCT TN 392

(2) INFORMATION FOR SEQ ID NO: 7431:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 127
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08673

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7431:

GATCTTTGGG AAGGGAGACT AGGGCAGGTG GAGACAGCGC AGAACCCCGG TGCTGGGTGG 60
 GAAGCATGAC CACACGGTGG GTGAGCAGCC CCCATGCACT GATGGTAAAT TCCCCTGTGG 120
 ACTCAAA 127

(2) INFORMATION FOR SEQ ID NO: 7432:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 353
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08674

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7432:

GATCTGTCTG GCATGTCAGG AGCCAGAGAT ATTTTNATAT CAAAAATTGT CCACAAGTCA 60
 TTTGTGGAAG TGAATGAAGA GGGAACAGAG GCGGCAGCTG CCACAGCAGG CATCGCAACT 120
 TTCTGCATGT TGATGCCCCG AGAAAATTTT ACTGCCGACC ATCCATTCCCT TTTNNNNNTT 180
 CGGCATAATT CCTCAGGTAG CATCCTATTC TTGGGGAGAT TTTCTTCCCC TTAGAAGAAA 240
 GAGACTGTAG CAATACAAAA ATCAAGCTTA GTGCTTTATT ACCTGAGTTT TTAAATAGAG 300
 CCAATATGTC TTTATAANCT TTNCCANTA AAAACCCACT TGTCCTCAAAG AAA 353

(2) INFORMATION FOR SEQ ID NO: 7433:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 399
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08675

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7433:

```

GATCTAATTG GCTTTTATTA GCAATTCATG AGCCCGGCAG CATCCAGTCT ACAAATAGA 60
AAGGAGTGCC ACTAAGCTAG ACAGAATGGA TGGGTTTAT GGCAGAAAA AGTGGAAGCA 120
AGCAAGAACA ATGAACAAAT TAATGGATGG ATTGTTTAA GATTACATTT CTTTATGGG 180
AGTAAACAAA ATCTTGTTAG CCTAATGGAA TTTGGCATCA TCTCCTGATT TCTCAGAAGG 240
TCATATCTTG TAAGTGAACC ATTTAGGTTT GGTGACCTGG NACCTTTGGC ATAANGTGAC 300
TCCATTTTGG GGCCTGCTGC CTTTTCTTT AAAAANGGAG TGACACCNTA ATTTCCATGG 360
GNNGAGCACA CANNATGCCC TTGTNTTGCA GGACCTNCN 399

```

(2) INFORMATION FOR SEQ ID NO: 7434:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 230
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08676

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7434:

```

GATCCTGACC ATATTCCTCA AGGTCTCCTT TTCCTTCCTC CAGTGTAACA AAATTCCTG 60
CTGGCGTCCT ATGTAAAGAT AATCGGCCCT TTTTGGACCT TTTGTTGGGN TCAAGAATTT 120
GGGTGGGAGA AAAGAAAGTG GGTTATCAAG GGTGATTGGA AATTTTCTGC AGCATTAAG 180
CTGGCGCTTA ATAAGAATAA GTAATAATAA AGAAATTTCT AACATTCAAA 230

```

(2) INFORMATION FOR SEQ ID NO: 7435:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 153
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08677

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7435:

```

GATCCTGAAA ATAGCCCCGT GAAGGCAGAA ATGTATGTGA CTAGAACGAG GCCACATGAA 60
TAAGCCACTG CCCACTGGCA GGAGTGAAAA CTGAAGCGCT CCTTACCTGA AGGACCCCAA 120
AACCATATAG AATAGAATAA CCAGGAGTTC AAA 153

```

(2) INFORMATION FOR SEQ ID NO: 7436:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 138

(B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08678
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7436:
 GATCTCACAA GCNCTTTCCC TCTTGGTGCC TCAGTTTCCT GACCTATGAA ACAGAGAAAA 60
 TAAAAGCACT TATTTATTGT TGTGAGGAGC TGCAAANTGT TAGTAGATAT GAGGCATTTG 120
 CAGCTGTGCC ATATTAAA 138

(2) INFORMATION FOR SEQ ID NO: 7437:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 361
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08679
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7437:
 GATCATGGCT AAAGATGACC TCTCTGGTGC TGACATCAAG GCAATCTGTA CAGAAGCTGG 60
 TCTGATGGCC TTAAGAGAAC GTAGAATGAA AGTAACAAAT GAAGACTTCA AAAAATCTAA 120
 AGAAAAATNTT CTTTATAAGA AACAGGAAGG CACCCCTGAG GGGCTGTATC TCTAATGANC 180
 CATGGCTGTC ATCAGGAAAA TGGTTGGGAG ATTTCTCAAT CCCTGAAAGG ATGAGGTTGG 240
 GGGAGTTGCC CAGAGGAATC CCTGTTCCCA CTGATTTTTA TTAGCAAAAC ATCCTGTGTC 300
 TTTTGGAGTA CGNTGTGTAA GTGCCCATG GGTGGCCTGT TNGGTCACTG TGCAGCAGTT 360
 N 361

(2) INFORMATION FOR SEQ ID NO: 7438:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 273
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08680
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7438:
 GATCAAAGTG TAAACACCAT AGGGACCCNT TCTACACAGA GCAGGACTGC ACAGCGTCCT 60
 GTCCACACCC AGCTCAGCAT TTCCACACCA AGCAGCAACA GCAAATNACG ACCACTGCTA 120
 GATGTCTATT CTTGTTGGAG ACATGGGATG ATTATNNNCT GTTCTATTTG TGCTTAGTCC 180
 AATTCCTTGC ACATAGTAGG NACCNNGTTC AATTACTATT GNATGAATTA AGAATTGGTT 240
 GCCATAAAAA TAAATNNGGT TCATTTAANG TNN 273

(2) INFORMATION FOR SEQ ID NO: 7439:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 173
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08681

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7439:

GATCAGAGGA ATGTTAINTT GTTCAGCCTT CTGGTTGGTT CACAGTAGTG ATAGTATTGT 60
 AAATACTCAG AGCAATCCTA CAAGAAGAAA ACTACATNAG CCCCCACATG TTCCCCCCAA 120
 CATACCCCAT CACAGCAACT GAAAACAAGA GAAATGTTAG TTTTCTGTGG AAA 173

(2) INFORMATION FOR SEQ ID NO: 7440:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 194

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08682

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7440:

GATCTCTTGA ACTCTGGGTT CTCCAGCCC CTTGTCCTTC CTTCCAGCTG AGCCCTGGCC 60
 ACACTGGGGC TGCCTTTCTC TNACTCTGTC TTCCCCAAGT AAGGGGGCTC TCTNAGTGCA 120
 GGGTCTGATG CTGAGTCCCA CTTAGCTTGG GGTCAGAACC AAGGGGTTTA ATAAATAACC 180
 CTTGAAAAC T GAAA 194

(2) INFORMATION FOR SEQ ID NO: 7441:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 132

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08683

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7441:

GATCANATGA AGAAAAGGAG AGGTAGATAC AGTCAGTGTC ACTTCAGGAA AGCTATTTAA 60
 AAAANCTTGA AATATAATTG AAAGAAGAAA CAACACCAA NAAGCCTAAN CCTAGCCTCT 120
 GANCANCACT AN 132

(2) INFORMATION FOR SEQ ID NO: 7442:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 208

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08684

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7442:

GATCAATCTG AGGAGACTTA ATAATGATAT TNATTCTCCC AATTCATGAA TATAGTATAC 60
 CCCTGTATTT ATTTGTNTTC TTGAATTTCT TTTATCATTG TTTTGTAGTT TTCACCATGA 120
 CAGTCTTGCA CATATTTTGT TAAATGTACA GCTGAGAATT TAATTTTTC TGGTGTACAA 180

TGCTAATAAAA ATGGTGCTTT AAAAGAAA

208

(2) INFORMATION FOR SEQ ID NO: 7443:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 244
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08685

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7443:

```
GATCCTCTAA GGTCTACAG TTTACTTCTT GTATTCTCCT TTGTAAGTCA TCTCCAAGAC 60
GATGTCCAAA TCCATCACCA TTAAAATTAA TAGTTTCCTC ACCACAACA CTTAATATTT 120
TAAAAAANGA TACTTTTCAT TGTATTATAA TTAATTGATA CATACATATT TGCTCTGTGA 180
GTTCTTATT CATCATATTA GTGCCTGACA ATAAATGTGT GCTGGATTGA GCTGAATCTT 240
TAAA
```

244

(2) INFORMATION FOR SEQ ID NO: 7444:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 323
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08686

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7444:

```
GATCCTGCAA TTCCACTTAT AGGAATTGAC CCACAAGAAA TGAAAGCAGG GACTTGAACC 60
CATATTTGTA CACCAATATT CATAGCAGCT TATTCACAAG ACCCAAAGG CAGAAGCAAC 120
CCAAATGTTC ATCAATGANT GATTGATTGG CTAAGCAAAA TGTGATATGT NCCTAACGAA 180
GTATCCTTCA GCCTGAAAGA GGAATGANGT ACTCATACAT GTTACAACAC GGACGAACCT 240
TGANANCTTT ATGCTAAGTG AAATAAGCCA GACATCANCA GATAANTAGT TTATGNTTCC 300
ACCTACATGN GGTACTGNGA GTN
```

323

(2) INFORMATION FOR SEQ ID NO: 7445:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 318
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08687

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7445:

```
GATCCTCCTG CCTCATCTC CCAAAATNCT GGGATTACAG GCATAAGCCA CCGTGCCTGG 60
CCTCTTTAAT AATNTTNAAG ATACCCTAAA GGCTTGTGAA TATACAAGTC TACTGATAAA 120
TTATGTATTG TCTGGGAATT TGATAGTNAT TGTTTTAGAT AACTGGNTTT TACGCTGTGG 180
TAGNCNGGCT GTGACACTAG TGTTGCACAG GTGTAATTGG TCATCCTATG CCTTCACCAG 240
AATAACTTGG GAGTGGTGCC AGAANCTAGA GTCTACAATT CTCACTGTTT AGAGAGTGTT 300
ANTGNCATAC TGTGTATN
```

318

(2) INFORMATION FOR SEQ ID NO: 7446:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 317
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08688

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7446:

```
GATCAAGATA GTAGTATTAT TACACAAGAA ACTTGGTCTG CAGTCTGGAA GCTTGTCTGC 60
TCTATAGAAA TGAAAATGCA GCATGAAGTT GACATTGTGG AAATGAAAGT AATTGGGTAT 120
TAGAAATCTG AAAGTACTGT CATCTAANAG CAATTGTGAT TTTNTTGTAA TTGGTTGTCA 180
CTGTTGTNCG GTGCTAGNG TTANNGAATA CATGTNANCT TTCATGGTAT TTNGCCTTTC 240
TTAANTTTTT TTAAAATTTA ANCTTTCTAA CCTATGTATT CAACTTCTGT ATTTATATNT 300
NATCAGTGGT TCATGTN 317
```

(2) INFORMATION FOR SEQ ID NO: 7447:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 284
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08689

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7447:

```
GATCATCAAAA GAAAGACAGG GTGACCTGAG GATTATATGT TCAGCCAAGC TCCCCTCCAA 60
GCATAAAGGC TACAGATAAC CATTGTGACA TATTCAGGAA CTGGAGTAAT GTGATTCCAA 120
TGAGCCTGTC TTGAAGGAAC TCCTAGGGGA TTAACCTCAG CTAACCTGGG AAGTTATCTG 180
GAGAAACCAC AACAGAAGGA CTGGTTGTAG TTCGAGGCTG TAGTCAGCTA TGATTGCACC 240
ACTGCACTCT AGCCTGGATA ATAGAGCAAG ACTTTGTCTC CAAA 284
```

(2) INFORMATION FOR SEQ ID NO: 7448:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 324
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08690

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7448:

```
GATCCCTAGT ATAACACATT CAGTGTTCCC CTTTCAGTCT TACTACTTTN ACCGCGATGA 60
TGTGGCTTTN AAGAACTTTG CCAAATACTT TCTTCACCAA TCTCATGAGG AGAGGGAACA 120
TGCTGAGAAA CTGATGAAGC TGCAGANCCA ACGAGGTGGC CGANTCTNCC TTCAGGATAT 180
CAGGAAACCA GACTGTGATG ACTGGGAGAG CGGGCTGANT GCAATGGANG TGTGCATTAC 240
ATTTGGAAAA AANTGTGAAT CAGTCACTAC TGGANCTGCA CAANCTNGCC ACTGNCAAAA 300
TTGACCCCCN TTTGTNTGAC TTCN 324
```

(2) INFORMATION FOR SEQ ID NO: 7449:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 324
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08691

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7449:

```

GATCACCTGA GGTGAGGGGT TCGAGACCAG CCTGGCCAAC ACGGTGAANC CCATCTCTAC 60
TAAAAATGCA AAAATTAGCC GGGCGTGGCG GCACATGCCT GTAATCCCAG CTACATGGGA 120
GGCTGAGGTG GGAGAATTGC TTGAACCCAG GAGGCGGAGG CAGAGGCTNC AGTGACCCAA 180
GATTGTGCCA CTGCACTCCA CCCTGGGCAA CAGAGCAAGA CCCCATCTCA AAAATAAATA 240
ANTATATATA NAAAATAAAA NGCTATTTCT NGNNNNTTTC ACTATAAAGT TTTGCTTTAT 300
TAAAAAGCTA NTANGCAGCT ATTN                                     324

```

(2) INFORMATION FOR SEQ ID NO: 7450:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 326
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08692

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7450:

```

GATCTTAAAC TCAGTAAGCC ACTATCTGCA ATTTTGTACA TTATATAGTA TTTTGAAGAT 60
ATGGAACCTT ATGAAAAAAA AATAGCAAAT NAGTTCTTTT TCCCCAGAG GGGAAAGTTA 120
TG TNCTGCAA ATAGTGTGTG TCTTATTTTA CTGTTGANCA GCAATNGCNN NTTATTTTTT 180
NATTGCCTAG AACTTCAACA TGTTGTATAG GAATCCTGTA GTGCCACTAG TTAAATGCCG 240
AATTCTCATC TGGATGTTAC CATCAAACAT CAGTACACTT GTCATTTTAC ATGTGTTTAA 300
TGTGACAGTT TTTCACTACT GTNTNN                                     326

```

(2) INFORMATION FOR SEQ ID NO: 7451:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 38
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08693

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7451:

```

GATCTNGTGG GCATAAATAA AGGTGTCATA AAGACAAA                                     38

```

(2) INFORMATION FOR SEQ ID NO: 7452:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 83
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single

(D) TOPOLOGY: linear
(vii) IMMEDIATE SOURCE:
(B) CLONE: HUMGS08694
(ix) FEATURE:
(D) OTHER INFORMATION: "N"=unidentified base
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7452:
GATCTTAAGA AGTGCTTTGA AGGGTTAAGA ATCAGGGGTC CAAGAGAGAC CCCAGTCCCT 60
CAATAAAGCC ACAAGAGCCC AAA 83

(2) INFORMATION FOR SEQ ID NO: 7453:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 351
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear
(vii) IMMEDIATE SOURCE:
(B) CLONE: HUMGS08695
(ix) FEATURE:
(D) OTHER INFORMATION: "N"=unidentified base
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7453:
GATCTACACT CCAGGCCCGGA AAGAGCAAGG GGAGCCCATG ACCCCTCGCC GCACGCCAGC 60
CCGCTTTGGT CTGTAAGCTG AGGCTGTCCC CAGAGAGGAT GGCAGCAGGT ATTGGGTCCT 120
CAGCCTTCTG GCGGGAGCCT GAGGCTGCGG ACAAAGCCCT TTAATCTAAG GACTTTAATC 180
TGTNCATATN ACGGCCCCC AGGGCAGTTC CTGCTGGACC AGACTCTNTG GCAGAGGAGG 240
TGGAGTTCTT CCATGCAGGA GCACGNCATG GCGGGAGCGG GGCTGCAGAG TATCCGNGGT 300
GCTGCCGNGG CACGGNGAGG TNGCTNGACC CATCGCATCT AAAANTAGGA N 351

(2) INFORMATION FOR SEQ ID NO: 7454:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 55
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear
(vii) IMMEDIATE SOURCE:
(B) CLONE: HUMGS08696
(ix) FEATURE:
(D) OTHER INFORMATION: "N"=unidentified base
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7454:
GATCTAAGGT TTAAAGAA TTTGGTTTGA AAATATACAG TTGTCTTGAA GGAAA 55

(2) INFORMATION FOR SEQ ID NO: 7455:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 61
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear
(vii) IMMEDIATE SOURCE:
(B) CLONE: HUMGS08697
(ix) FEATURE:
(D) OTHER INFORMATION: "N"=unidentified base
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7455:
GATCTGTTCT GTTTCACCAT GTAACACACA ATACATGCAT GCACTGTATT AGTGTTAGAA 60
A 61

(2) INFORMATION FOR SEQ ID NO: 7456:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 273
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08698

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7456:

```
GATCCCATTT TCCTCTGACG TCCACCTCCT ACCCCATAGG AGTTAGAAGT TAGGGTTTAT 60
GCATCATTTT GAGAATGCTG ACACTTTTTC AGGGCTGTGA TTGAGTGAGG GCATGGGTAA 120
AAATATTTCT TAAAAGAAG GATGAACAAT TATATTTATA TTTTCAGGTTA TATCCAATAG 180
TAGAGTTGGC TTTTNTTTTT TTTTGGNCCA NGGGGGGGGG TTTTTTCCCC NTGCCCCCCT 240
GGGGTTTTTN NANTCCCNCT NNNAAAANAA ANN 273
```

(2) INFORMATION FOR SEQ ID NO: 7457:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 363
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08699

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7457:

```
GATCTTAACC AGTCGAGTGG AGTGATACATT GTCTGAATAC AGGNTGCACA ATGTTGTCAA 60
TCCTGGAAAT GGTCTTTCTT TTTTGTAAGA TATGTGAATG AAGTGTGTTGGT GTCCTCACCA 120
AGAGGTGGCA CCTAAGGGTT CTGAGGAAAT AAATGTATAG ACCCTTATGT ACAGACCTGT 180
GTATAAACAA CTNTTGATA TACATATAGG ATAGCTTTTT TGTACTATAC AGCTGGTACC 240
ATAANAGTAG CTGGATANTT TGGTTAGGNC NGGTTGTCCA CCAGTTTTGG NNTTTTTTTT 300
CACTTTGNTN CATTTTGGGG GATTTTCCTT GTGGGTTGNN TTAAAANTTG CATATGCTTA 360
NGN 363
```

(2) INFORMATION FOR SEQ ID NO: 7458:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 173
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08700

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7458:

```
GATCCGTATT TCCAATAAAA TCCCCTACCT GAATATTCAA GTTAAACATG TCCAGAATAC 60
TTACTGATTT TATTGTTAAT AGCCACTATT CTGTTGTCTG GAATTAAAC CTGTATAACT 120
AATTGTCATC CCTTTATCTT CTTAGTCAAT AAAACCTACA ATCCTCTTTC AAA 173
```

(2) INFORMATION FOR SEQ ID NO: 7459:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 349

(B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08701
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7459:
 GATCACCCCC CAACTTGCCC TTCAAGTTCT ACTTCAGTTT GATAAGGCTA TAAATGCAGC 60
 ACTGGCTCAG AGGGTCAGGA ACAGAGTCAA TTTCAGGGGC TCTCTAAATA CGTACAGATT 120
 CTGCGATAAT GTGTGGACTT TTGTACTGAA TGATGTTGAA TTCAGAGAGG TGACAGAACT 180
 TATTAAAGTG GATAAAGTGA AAATTGTAGC CTGTGATGGT AAAAATACTG GCTCCAATAC 240
 TACAGANTGG ATAGAAAANN TATGACTNNT TTACACCATC TTCCTGTTAT TCATTGCTTT 300
 TTGAAGAGNA GCATAGANGA GACTTTNTTN TTTTATNCTN GGAATTTTN 349

(2) INFORMATION FOR SEQ ID NO: 7460:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 395
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08702
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7460:
 GATCTGGAGT AAGGAATATT GTCATCACCT GGATTTTGAG AAAGAAAAAT AACTTCTCTG 60
 CAAGATTTCA TAATTGAGAG AATTCCTGAG TTGATAGCTC TAAAGGCAGA TATGCTGTAT 120
 TTGCCTACTT TAACCCATTT TTCAACCTGT TTGTTTTTTA ANNGGNTTCA CTAAGGGTTG 180
 ATATGTACCA TTGTATGGGG CAATTTTAAG TCAGCTAAGG CAATAACCTT ATGCATGAGC 240
 ATTTCCAGAG CTTTCATGAA GCTGTTGAGG TCCTAGGCAA TTAATGCAGC AGTTGCGATA 300
 AATAAANGNC NTCTCACCTA AGNNTCCNTT TTCTTCNATA ACCATGGTTC CTGGNCATGN 360
 TTGGGAGGCT NCTCGGCTTT AGGGNAANGG GGTTN 395

(2) INFORMATION FOR SEQ ID NO: 7461:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 347
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08703
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7461:
 GATCGCCTCC CAACAGCAGA TTTCGACATT ACCTGAGAGT CTTGATTTTA GGCTTGTTTT 60
 TTGTAAACCC ATGTGTTTGT AGAGATTTTA GGCCTCTTCG GATATCTTCT CACCTATGTT 120
 CCCTGGCTAA GAAGTCAGAG GTAGCCAATG TTTCCTTAAA TTCATTTTAA AACTTACCAT 180
 TGGTGCATAT GTTCCAGATG GCAGATGCTG TCAATAATCT CACCATTGAT GACCTTTGTG 240
 TATGTAGTTC TTGCATCCTA TACTGGATAA GCCTGTTTTA ACCTGCTATG ATGGGTGCTT 300
 TCCATTGCTT CNTAATCTTC ATGGAGGGTT GCCATGCTTT TTGCCNN 347

(2) INFORMATION FOR SEQ ID NO: 7462:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 274
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08704
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7462:
 GATCGGNATG TAATAACAGC ATTAACACAC AGACCTTGGA GCCTAAGCCA TACAGGAGAT 60
 GGGAAACCAC GCTATGATAC TTNCTGGAAA CATTTTATAT TTNTAATGAT GGACATTTTN 120
 CTCGATTGGA GCATGCATAA TANCTTGTGG TACCTGTGTG GAATTTTCANC TTTCCTCATG 180
 CAAAAGGATT TTNTATCCCC GGCCTACTTG ANGAAGTGGT CAGCTAANGG NNTCCAGGTT 240
 GTTGGTTGGA CTGTAATACC NTTTGATGAN AAGN 274

(2) INFORMATION FOR SEQ ID NO: 7463:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 69
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08705
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7463:
 GATCAGAAAC TTGCATATGC GTGAAAAAAG GAAGAGCAGC AGAAAATAAA TAAATGACAG 60
 GAAAGCAA 69

(2) INFORMATION FOR SEQ ID NO: 7464:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 199
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08706
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7464:
 GATCTATAGC AATGTGATTT TATTTTTTAAA AAGAAAAGCA GTGTGTTTTT TTTTTTTGTT 60
 GTTTTCTTTT GCTTAAGCAC TTCATCAATT GCTTTATTCT GTATCTGCGA AGTNATCTGC 120
 AATCTCTINTT GNNCTTTNTA AAATTTGGAT NTGTTATAAA AATTGNCCAN ATTGGAAGGT 180
 GTTTCAGTTA AAAAAANAN 199

(2) INFORMATION FOR SEQ ID NO: 7465:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 320
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08707
 (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7465:

```

GATCACAAAC TTGGAGGGCT GTATGGTTTT TCATTTAAGA AAGTAATTGT CGTGCAATAA 60
AGTTATTAAG CCTTGTTTAA GAATATTTTT ATTTTGTACA TCAAGTGGAG TTGGAAATAG 120
TTGGTTTCAT AATGATATAT TTCAAAAGTA TCTTGAAGTC ATCTGGTTCA TTCTACTACC 180
CAGGGCACAC ATTCCTCCTG TAACATCCCA AGTGGTTATT AAGCAAAACA GATTTATTTT 240
ATTTAGAAAA NNTTAGTATG ACTGATTGTC TATTGATTTT GTACTTCTAT AAATNAATGT 300
GGATACATGC TATATTCAAA                                     320

```

(2) INFORMATION FOR SEQ ID NO: 7466:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      311
(B) TYPE:        nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

```

(B) CLONE: HUMGS08708

```

(ix) FEATURE:

```

(D) OTHER INFORMATION: "N"=unidentified base

```

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7466:

```

GATCACTTAC AGGTGCCCTC TCCCCAACA GCCAGAAAGG GAAAACAGAG CCGAGTTTGG 60
CCACTGGGGC CTCCACAGCC CTCTGGAAGA AGGGGCTGAC TGATAGGAAG GCACTCCTCT 120
GGTGTTCACT GGCCAGACCC CTGTGGGCTC AGAAGACTAC CTAGACCCCA TGAAGAAAGA 180
CTCTAGACAC ATTTTTATAA TCAGAAACTT ACAGTTTATT GTGAATAAAC CACTCAACTT 240
TGAGCAGATG ACATTGCCTC ANTTAACTTT TTCGTTGAAG AAAAACAAAG ATATATGGTA 300
AATTCATGAA A                                     311

```

(2) INFORMATION FOR SEQ ID NO: 7467:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      434
(B) TYPE:        nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

```

(B) CLONE: HUMGS08709

```

(ix) FEATURE:

```

(D) OTHER INFORMATION: "N"=unidentified base

```

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7467:

```

GATCATCAAC AAAGACTTGT TAGAAAGGTC TAGTCTTAGC ACTTGGCAGT TAATCTAGGG 60
AAGATGAATT AAATGGGTAG ATAGTGATGC ATACCTGTAT TCACTGATGT ATGTTTAAGG 120
GATTTGGGGG GGATACCTCA GTTCATGTGG AAGGGACAGT CTCGGTGTGT CCCATGAATA 180
ACCTTGGAAC TGCAACAAAT GGTTTGTGCT CAGAAAAAGT CTTTCATGGT GACAGGAAGA 240
CAGTTTCCCT GGAGCTGGCC ATGAAGGCCT TAGAAGCCAT TTCTGGTGTC TGGTGGGTAG 300
CAGGCATAGA GATGATGTNC CGAGGTCCCA GTGAACACCA GTAGCCAAAN GAATTGTACT 360
ACCTTNTATC CATTANTTNG GGGAAGGTCC TTCCCTNGGG NAACCAATGN CCTTTTTTGN 420
TGGGCCAAAA TTTN                                     434

```

(2) INFORMATION FOR SEQ ID NO: 7468:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      414
(B) TYPE:        nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08710

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7468:

```
GATCGAGCTG TGGACTTATA CCTGTGTGCN TGGTTTACAG GTCCAGTGGT TCTTCAGCCC 60
ATGACAGATG AGAAGGGGCT ATATTGAAGG GCAAAGAGGA ACTGTTGTTT GAATTTTCCT 120
GAGAGCCTGG CTTAGTGCTG GGCCTTCTCT TAAACCTCAT TACAATNAGG TTAGTACTTT 180
TAGTCCCTGT TTTACAGGGG TTAGAATAGA CTGTTAAGGG GCAACTGAGA AAGAACAGAG 240
AAGTGACAGC TAGGGGTTGA GAGGGGCCAG AAAAACATGA NTGCAGGCAG ATTTTCGTGAA 300
ATCTGCCACC ACTTTATANC CAGATGGTTC CTTTCACAAC CCTGGGTCAA AAAGAGAATA 360
NTTTGGCCTA TNATGTTANA AGGAANGCAG GNNGGTGGGT TNAANTAAAA NTTN 414
```

(2) INFORMATION FOR SEQ ID NO: 7469:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 214
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08711

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7469:

```
GATCAGTATT TTTAATCAAC ACCTGAGAAC TGTTACACCT TTNATTTTGT CTTTNAGGAA 60
ATCCCTGTCT TTCCATTTTT TCATGTAAAT NTTGCACAGT TACTTGTTCA TATGTAAATA 120
TTTTACTTTC AGAAATNAAG TTTTAAATTG CTATTGTTTT ATATAGGATT GAAAGAAAAT 180
NAACTCCTTT ATTAAAAACA AATTTATCTG TAAA 214
```

(2) INFORMATION FOR SEQ ID NO: 7470:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 418
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08712

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7470:

```
GATCCATTTC CTCAGGACTC AGTTAGGTGT GCCCAGACGC ACTGACAAAA TNACGTGACT 60
TCAGGGAAGC CTGGACACCC GAGGCACCTG GACCAGCTAT GGGTAGTTCT GTGGGTGGAA 120
CACATTCTGT GTAAGAGCCC CACTGAGGGC TCTGCAGCGG AGTGACAGCA ACCCCAGAGA 180
TGAGGCACCA GAGAGTGCCA CTGCATGAGA CACCTGTGAC CATTGGAAGT CTGAAATGCG 240
GGGGGGGAGT TTCATTTTTA AGTGAAGACC AAAAGCCCTT TAAAAATAAT AGTTTTTTTAT 300
CATTTTATAG TAATCAGCGG NNTCTCTTTT ACTAATATAC TCATTCCTNT TGCATATGAT 360
TGGNCTTTTG GAGCTACATG CTCCNACAN NCTGTATCTT AATTGGTTAA CTTGTTAN 418
```

(2) INFORMATION FOR SEQ ID NO: 7471:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 422
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08713

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7471:

```
GATCTTGGCG TTGTGGTAGA TTGCCTTCCT GTGCTCACCA ATTGTTTACA GGAAGAAAAA 60
CAATATATCT CACTTGGCTG CTGTGTTGAC TTGTTGCCTC TAGTAAAGTC ACTACTTAAA 120
AGCAAATTTN AAGAATATGT TATAGTTGGT TTAAACTGGC TTCAAGCAGT CATTAAAAGG 180
TGGTGGTCAG AACTATCATC CAAAACAGGA ATTATAAATG ATGGAAATAT TCAAATTTTA 240
AAACAACAAT TAAGTGGATT ATGGGTACAG GANAACCATC TTAAGTTGGT TCCAGGATAT 300
ACTGGTAATN TAGCTANGGG TGTAAGTGTCT TTTTCTCTT CCAGTTCCNT TGNNGGATTT 360
CCTCTNCCTG NGGGGCATTT TGGTTTTTCA ANACCNTCCC NTGGACCTGT TTTANTTTTC 420
CN 422
```

(2) INFORMATION FOR SEQ ID NO: 7472:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 359
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08714

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7472:

```
GATCGCCTTA ACTACTGTAA ACATAGCCTA TTTTGTGCT TAANATACTG AATGGAAAAAC 60
TCCATTGTGT GTTGCTGGAC TGTTTTGGAA ATATNNNGTT AAATGTGTGT TAATTTGGCT 120
GTAATGGCAT TTAAAGCAAA CAAACAAACA AAAAAAGCTG TGAAAATGGC CTTGGAGCAT 180
TATCTTTAGT TACTTGAAGA GTTTCTAGTT TTTTAAAAT ACAGTTTATG TTAATAAAT 240
TTTANTTAAT TTAGAGANGC CAATCATTGT CTGNGGGGAA ACCGGCCTTN CNTTTTGGGN 300
TTNCNTTTTN GTGGGCCATT GGTGAGGTGA GTGCCTNTTN CCCGTTTCNT TNGGTTTCN 359
```

(2) INFORMATION FOR SEQ ID NO: 7473:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 105
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08715

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7473:

```
GATCTTTAAA GTTATTTTGA GGCACATTTG TGACAAACAA CTACTTGATA TTGAAATCTC 60
CNTCAGCCAT TAGAAGCTAT CAAATAAAGT AGGTGTAAAA ACAAA 105
```

(2) INFORMATION FOR SEQ ID NO: 7474:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 104
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08716

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7474:
 GATCAAGTAT GCTAATNTTA AGCAAATGTA AAAACTCATA AAACAGGTAA ACAGTGGGGT 60
 GATTTTCATTT GCCATAATTC ACATAAGACG AATTTTAATC TAAA 104

(2) INFORMATION FOR SEQ ID NO: 7475:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 340
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08717

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7475:
 GATCCTTGTT TTTAAGTTAC TTTCGATGTG TATACGAACA AAGACCAGGG AGAAACAGAA 60
 CTTTTTAAAC TATAGGCTGC TGTNTTGGGG CCAGAAATAA GGTGACAAGT AAAGACTTTT 120
 ATAATACCTA CCTTCAAANT TAGAATCAGC AGCACTGTAC AANTAAAGTG CCTGTGCTTC 180
 ACCTCACACC AAGANTCTTG CCTAACCTG TCAGAGTGCC TAATATCCTG TGGTGATTAT 240
 GTATAATGAA ACAGTCTTAT TTTGTGCTCT TTGGTTTCTT AAAAGGAAAG CTTGTTTTCT 300
 TTCCTTTATC ATTACAGAGG TATGTCTTTG GTTCTTANTN 340

(2) INFORMATION FOR SEQ ID NO: 7476:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 189
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08718

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7476:
 GATCTGTGAA AAAATACAGT ATTGTAAATC CAAGACTCTG ATACTGAATT TAAGTTATTT 60
 CACAGTTGTA GCTACACAGT AAGTAGCTTG GTAGATAGTT ATTGANTGTA TTTATGTAGT 120
 GTATTAAGAA GCTTATATTA CTACAAAAA CTTATTTTAA TATATNTNNN TATNTNNGTN 180
 TTATTTATN 189

(2) INFORMATION FOR SEQ ID NO: 7477:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 342
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08719

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7477:
 GATCTGTGTG ACAAATNAT TTCTTAGCTA TAATCAGCAC ATCACTTAGT TCAAACAAAA 60
 TTCCCCAGCA AATGTTAGAT AGTAGGTATA TCAGTCACCT GGGGAGTTTT CTTTATAATA 120
 TGCATATTCA TCTNGTAATG CATACATAGT TATCATCCTC CTTCTCAACC CATCTCCCTA 180
 ACCCCACATG CTTGCCAGTT CTTGAAGGGA TAAAGTGATT GTAATAGTGT TTNACTNCTC 240

TCTGTTCAAT TTANTGTGAT ATAATTCTAG TNTAANNNTA TTTNGGACAG TNGCTTAACC 300
 ATGGTCATAA GAGGATTTGT ACTATAGATT ATCTTCNGGG GN 342

(2) INFORMATION FOR SEQ ID NO: 7478:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 54
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08720

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7478:

GATCTTTGTC AACCAAAACA TGTATTTTCA ATAAATTGAG ATTCCAGTT CAAA 54

(2) INFORMATION FOR SEQ ID NO: 7479:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 79
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08721

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7479:

GATCTGTTTC CCTTCACAT TTTCCCATTT TGTGAGCAT TTCCTTACTT CCTAACATGA 60
 CAAAATATTT CAAACTAAA 79

(2) INFORMATION FOR SEQ ID NO: 7480:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 281
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08722

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7480:

GATCCCCCTG GCCTGGAGGC AGCAGCTGTA TAAACTCTAC GAGGCCGACT TTGTTCTCTT 60
 CGGCTACCCC AAGCCCGAAA ACCTCCTCCG AGACTGAAAG CTTTCGCGTT GCTTTTTTCTC 120
 GCGTGCCTGG AACCTGACGC ACGCGCACTC CAGTTTTTTT ATGACCTACG ATTTTGCAAT 180
 CTGGGCTTCT TGTTCACTCC ACTGCCTCTA TCCATTGAGT ACTGTATCGA TATTGTTTTT 240
 TAAGATTAAT ATATTTTCAGG TATTTAATAC GAAATGTGAA A 281

(2) INFORMATION FOR SEQ ID NO: 7481:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 326
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08723

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7481:

```

GATCTGAGTC CAGGCAGTGT TTTTAAGNGA TATGAGTTAG TAGTGAAAAT TGAAAAGGAT 60
ATTTTACAAC CAAATACAGG TTTNNTGGTG TTTTGTGAAA AATCCAAAGA TTTGGCAACT 120
CGACCTAGGC TCCGACAAAA CCACAGTTGT TGGGAGCTGA GCCGGAGCCA GAACTCACAA 180
TTCACCGTGG CCCGGCCACC CATCCCCACC ACTCCCGTGG GCTCCTGACC AAGCACCACG 240
TGCCATTCAT CATGGCTTGC TTTTAGTGTT TTTGGTGTTT ATCTTAAAGT ACAGCGAAGA 300
AGAAAGGGAA GTATTTNTTA GACCCN 326

```

(2) INFORMATION FOR SEQ ID NO: 7482:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 331

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08724

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7482:

```

GATCTGGATT TGGTAAAGGT TGACTTAATT GAACTCTCTG AAAAATGCTG TAGTGACTTT 60
AATTTGCACT CAGAATTAGA GCGCTCATTT TTGTGAGANC CATCATCTCC AGGAAGAACC 120
AAGACTACTA AAGGATTCAA ACTTGGAAG CACAAGCATG AGACCTTTAT AACGTCAAGT 180
GGAAAATCTG ANTACATTGA NCCTGCCAAA AGAGCTCATG TTGTGCCACC ACCAAGAGGA 240
AGGGGCAGGG GTGGNTTTGG ACAGGGTATA CGACCTCATG ATATTTTNG TCAGNGNAAC 300
CAGNNCAGAN GTNGACCACC ATCTNTGCNT N 331

```

(2) INFORMATION FOR SEQ ID NO: 7483:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 338

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08725

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7483:

```

GATCGGAGTC GCCAGGCAGT ATATCCAGTT AGAAGTTCCG GGCTTTTGCA TTAGCTTGTC 60
TGATGCTCAT GCCCCTCA GAGAAAAGAC ATCAGCAAAT TAAGAATTTT CTGGGTTTCCT 120
GTGACCCTCA GGTATTTTTA AAGCAATTGG AAGAGCATAT GAACACGGGC CAGCTAGCAG 180
GATTTTCACA TCAAATTAGA AGTCTGATTT TGANTAATAT CATCAATAAG AAGGAGTTTG 240
GGATTTTGGC AAAGACCAA TACTTTCAA TGTTGAAGAT GCATGCGATG AATACCAACA 300
ATATCACTGA GCTAGTGAAC TATTTGGCAA ATGACTTN 338

```

(2) INFORMATION FOR SEQ ID NO: 7484:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 338

(B) TYPE: nucleic acid

(C) STRANDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08726

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7484:

```
GATCCGCCCT CCTTAGCCTC CCAATCCTCT CTAAAAAAG TGATAGCTCA GAAATATTTG 60
TAAAAGCAAG GTTTTATTTT CATTTTGGCT CTGTCATTTT CAGAGGCAAA GAAGTTGGCC 120
TGTAATAATAG AGTGCTAGAG CTCTTACGCC CCTCCCCTTC TTCCCAACTT CCTACTTCCT 180
AGCCCTTTTA TCAACTCCTA GAATAGTTAA AGAGAGACAC ATCTAGATGG GATGAAAGGT 240
GCCCTAAGCA GGAGAACCTG ANCAAAAGGC TAGAGGCATG GGCCAGGTAA AATTTGGGGC 300
CTAGAGTGAA GNCTGTGCTG TCGTTAAGNG CTTTCGAN 338
```

(2) INFORMATION FOR SEQ ID NO: 7485:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 338
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08727

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7485:

```
GATCACAGTG ACAAAGAAGA TGAACAGCCT CAAGTGGTGG TTTTAAAAA GGGAGACCTG 60
TCAGTTGAAG AAGTCATGAA AATTAAAGCA GAAATAAAGG CTGCCAAAGC AGATGAAGAA 120
CCAACCTCAG CCGATGGAAG ANTCATATAT CGAAAACCAG TCAAGCATCC CTCAGATGAA 180
AANTATTGAG GTTTAACAGC AAGCTCAAAA AAGAAGAAGC CAAATGAAGA TGAAGTAAAT 240
CAGGACTCGG TCAAAAAGAN CTCACAAAAN CAANTTAANA TTAGTAGCCT CCTTTCTTTT 300
GACAACGAGG ATGAAAATGA GTAAGTGTA TTTNTTTN 338
```

(2) INFORMATION FOR SEQ ID NO: 7486:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 302
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08728

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7486:

```
GATCTTAATT CATATCTTGA AGATAAAGTC TACCTTACAG GGTATAACTT TACATTAGCA 60
GATATACTAT TGTACTATGG ACTTCATCGC TTTATAGTGA GTATTTGTAT AGTTACTGGC 120
TTTTTTTCTG TAGTGTTGAG AATGATTTT AAAACTTTGT CTTGAATTTA AATCAGATTT 180
GCATTTTGG CTTATCAAAT AAAAATGAAA GGAATTCCTT TATACAAGGT GCCTTTTGTA 240
ACAAACCTGC ACGTTGTGAC ATGTACCCTA AAACCTTAAAG TATAATANTA ATAANNTTNA 300
AA 302
```

(2) INFORMATION FOR SEQ ID NO: 7487:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 334
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08729

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7487:

```
GATCAAAAGT GAATAATGTA TGAATGAGAG CTGTAAGAAG GATTTTNATT TTGTTATAAT 60
TTAGTTACCA TTTTCAGTGT TATTTCAAAG GTTCTTTGAA GAATTTTGGG GCAGGGCATC 120
AGATTAGAGT TTTAAAATTT GAGTATTTTG GATATCAGTG TTCCTCATGA AGATATACAT 180
GGATATNCAA TTTTGATGGC TTCCAGATTT GTAAGATTTT ATGTTGTATA TACCATTCTA 240
TTAAGAAACA TGTCCACTGT GCTTTCAAAC ATAGATAAAG CATGATAAAG ATTATNATTT 300
AAGATATACT TGTATTTATA CCTCAGATAT TCTN 334
```

(2) INFORMATION FOR SEQ ID NO: 7488:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 337
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08730

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7488:

```
GATCAGCTGG ATACTCNTGT NACCAGAATT CCAAAGGTTT TGATAGAATC AAAGATGGAT 60
ACAAAGTGAA CTCACACATA GCTAAGCTGC AAGAGTTATG GAAAACTCCC CAAAATCAAA 120
CAATCCACCT CTCTAANTCA NTGATGGAGG CGTCCTTTTT CAAGCATCCA GACCTCACCA 180
CAGGCCAGAN GCGTTACCNG TGCAGCATTG CTAAANTCTA TAATGCAAAC TATCTGANGA 240
TGTTAATGNA GNGGCAGTAC ATGCACGTNC TTCAGCACAG CTCACAAAAG CCAGGTGTCC 300
TCACTCATCA CAGNNGCCGC CTTNGCTCCC GTTTATN 337
```

(2) INFORMATION FOR SEQ ID NO: 7489:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 292
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08731

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7489:

```
GATCATTGAG AACACTGNAC ACAGCAGCTT CAGGCAAAGG GAAAAGAACT AAATGAATTC 60
CGGGAAAAGC ACAACATTCG TCTCATGGGA GAAGATGAGA AGCCAGCAGC CAAGGAAAAC 120
TCAGAAGGGG CTGGGGCTAA GGCCAGCTCA GCTGGAGTGT TGGTCTCCTA GGGACCAAGG 180
CCTTTGCATT TTTTCTACC CTGACTCCCA CTTCTAATTT CTCTTTATTG TTATTATTAT 240
TATTTTCTCT GCTATTGTAA TATTTTCTT TTAATTAAAT GTTTTGGTTA AA 292
```

(2) INFORMATION FOR SEQ ID NO: 7490:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 140
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08732

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7490:

GATCAACTGC AACAGGCAC GAAGGAAGTT TTTTGGGTGA TGAAAAATAA AACTTTGGAT 60
 GTCGAACATA TTTTGAACT AGATTGCAAT NATAGTTGCA TAACTNTATA CATTTATTAA 120
 AATCGTGGA CACTTACAAA 140

(2) INFORMATION FOR SEQ ID NO: 7491:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 337
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08733

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7491:

GATCCGGTCT CCCCCGCCCC CCGGCTGCAG GGTGGATAAA GAGGAAGATG TGAAGAGGAG 60
 GCAGACAAAA GCAAAAGGAC ATCCTGTCAG TAGGAAACGG CCGAATTACA ATTCAGATGT 120
 GCAATGTTTG CATAAGTAAA CTGACACGGG ACTATTATAT GCAGAANTCC ACGTGCAAAA 180
 NTTTTTCAGAC ACACCTTTGT ACCTCTNCCT AATCCTGCCC TGGTAAAATG GCGGTTATCA 240
 GTGCAAGTTT GAGGATACAT ACAGCTGGAA ANTGGNCATC ACCAAACTGG ACTCCAGAAA 300
 GTNCTGTCTA GGATTTTATT AGACTGCTTT TTTNCAN 337

(2) INFORMATION FOR SEQ ID NO: 7492:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 337
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08734

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7492:

GATCTATTTT TCAGTAATNA GTGTGTGCCT CATGCCTGTT TCAATATTGG GTTTTGGAGA 60
 CANTATTGTA CCAGGCCTGT TGATTGCATA CTGTAGAAGA TTTGATGTTT AGACTGGTTC 120
 TCCTTACATA TACTATGTTT CGTCTACAGT TGCCTATGCT ATTGGCATGA TACTTACATT 180
 TNTNGTCCTG GTGCTGATGA AAAAGGGGCA ACCTGCTCTC CTCTATTTAG TACCTTGACAC 240
 ACTTATTACT GCCTCANTTG TTGCCTGGAG ACGTAAGGAA ATGNAAAAGT TCTGGAAAGG 300
 TAACAGCTAT CAGATGATGG ACCATTTGGN TTGTCAN 337

(2) INFORMATION FOR SEQ ID NO: 7493:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 75
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08735

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7493:

GATCGGCCTG CGAAAGGATA CTGTGAAATN ACTAATTAAC TAATAAACCT GTCTCAAGTT 60
GAGGATTTGA AGAAA 75

(2) INFORMATION FOR SEQ ID NO: 7494:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 343
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08736

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7494:

GATCTGGGGT ACTTGCCAGG GCTTCCCTCA GACAATACCT TAGAGAGTCA CAACCATTCC 60
AGGGTCTGGT CTACCTCACA TCCTCATTCA TTGTTGGATG TGCTTAGCAT AGCCAGAGGT 120
GTCTTCTCTT TGACAGACTT GCTATCTGAA AAATAAACCA GGACACCAAT TTTTTCAGCAT 180
ATAATAGAGG ACATCCCTTC CCAGCTATAG GAATGCTTGG TATCCTTCCA AGAACTCCTC 240
CTTTAGAGGA GCCTCACAGA AGTTGCTGGG TAAACATGGG CTCAAACCAA GGAAAGTCAG 300
GTAACCTGGG TGGNGGTTAT CCCACCACCA ATGGCAGGGG GTN 343

(2) INFORMATION FOR SEQ ID NO: 7495:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 95
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08737

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7495:

GATCAATATT GTAAAGAATT TATTCTGATA AATNAGAAAC TGGATATAAT GTCAAAATAG 60
CTATTTTCTC AATAAAAATC TCAAATCTCC TGAAA 95

(2) INFORMATION FOR SEQ ID NO: 7496:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 143
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08738

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7496:

GATCCTCCCT CCTTGGCCCC CCAGTGTTGG GATTACAGGC ATGAGCCACC GTGCTTGGCC 60
TGGAATNAAT TTTTATTTGA AGTTATTCTG TATCTCCAGT GTTGGCATAT GCTAGACATT 120
CAATGAATAT TTGTTGATTT AAA 143

(2) INFORMATION FOR SEQ ID NO: 7497:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 342
- (B) TYPE: nucleic acid

(C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08739
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7497:

GATCAACAAA	ATGTGGTATA	TTCATACAGT	GGAATATTAT	TCAGCCTCTA	AAAGGAAGAT	60
ACGCTGACAT	GTGCTGCAAC	ATGGATGANT	CTTGAGGACA	TGATGCTAAG	TGAAGTAAGC	120
CAGTCACTGG	AAGACAAATA	CTCTATGCTT	CCNTTTATGT	GAAGTATCTA	GAGCAGTCAA	180
ATGCATAGAA	ACAAGTAGAA	TGGTAGTTGC	CAAGGACTGG	GGGAGGAGGA	AATGAGGAGT	240
TGTTTAATGG	GTATAGTGT	TCATTTTTGC	NAGATAAAAA	GTCCTGTGGN	TTGGTTGCAC	300
AGTTAAGTTA	TGTGANTGCT	GTATGCCCAA	CTCANCTGTT	NN		342

(2) INFORMATION FOR SEQ ID NO: 7498:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 236
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08740
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7498:

GATCCAGTCG	GCCTGGAGAT	TCTACGCCAC	CAACCTCTCG	CGCACAGACC	TGCACTCCAC	60
GTGGCAGTAC	TACGAGCGAA	CGGTCACCGT	GCCCATGTAC	AGGTACCGCC	GCCGGGCACC	120
TGCCACCAAG	CAACTGTTTC	ATTTTTTATT	TTCCATTTGT	TCTTAAACCC	CACTTTTTGT	180
TGTTCAATTAT	TTTGATTGAT	TTTNNTTCT	TTAAATGTA	TTTTTCACAA	AGGAAA	236

(2) INFORMATION FOR SEQ ID NO: 7499:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 160
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08741
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7499:

GATCCTAACC	CTTTAGTATG	CTGGAATTCT	ACTCTTCACT	TACTGCATTG	ACTGTTGTTG	60
ATTAGTTATN	ATTGCAAAGC	ACTGTCACCG	GCCTCAGGGA	GTTTATGTGT	AATAGAATTA	120
AAAATAATAG	CTGTGTATAA	CACTTAGCTC	AAGCCACAAA			160

(2) INFORMATION FOR SEQ ID NO: 7500:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 210
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08742
 (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7500:

```
GATCTTATTG TGGAGTTAAA CAAAGCACCC TTAAAGTAGC AAGCGAGCAA AATAAAAGCA 60
AGGAAAATCA GTTGGAACAT AACTTATGTA TTTTITAGGA TTAAGAGTAA TTAACTGAG 120
TCAATTCAAT ATGTTTTTAA AGGTGTGATT CTAAATNCT TTATGATTGT TTAGATTCT 180
ATATCTTGGT AACATGAATA CACACTTAAA 210
```

(2) INFORMATION FOR SEQ ID NO: 7501:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 351
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08743

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7501:

```
GATCAGCATT TGTATTTNAG TCCATTAATG GGAAAAATAG CTGATATTGT NCATAGGAAC 60
TTGGAAACCA CACAGGACTT AAGTCCCTTG TCTGTNTTGA TGGTCAACAT ATCTCCTTTA 120
ATATCACGAC ATTTTCAACA ACANCTGGTG AACAAAACAG ANCTNCTTTT TGACACCATA 180
GATTCTCCTG AGGTCAACGT TGCAAAANGC ATAGCAAAGT TNCTCCGAAA TGTTAGATAT 240
CGTTATCAAC CACTATTAGA CAGATGTAAT ACCGTATTTT TTCAGTAATG TGNCCACCT 300
TGATTTTGGN TTCCATCAGT ANAGNGACTT AGTGATATACA NNNACNAAAN N 351
```

(2) INFORMATION FOR SEQ ID NO: 7502:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 195
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08744

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7502:

```
GATCGCACCA CTNCACTCCA GCCTAGGTGA CAGAGGGGAT GACAGAGGGT GCTCTGCGNN 60
CAGGGAAGGC GGGGTGGTTG GGGGGTAGAG AATGTTGCNC TNATAACCAC AGCTGTGGTT 120
ATTTTNTGGC AGGTACAGGT NAGGTTCCCT CTCCTTTCCA CCAGATGGCA CTGGAGAAAA 180
GGGATTNNAN TTAAN 195
```

(2) INFORMATION FOR SEQ ID NO: 7503:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 257
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08745

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7503:

```
GATCAGAGCA GAAATAAGTG AAATAGAGAC TAAAAAATAG AAAACATCAA TGAAACAAAG 60
AATTATTTTT TAAAAAGATA AACTAAATTG ACAAACCTTT AGCTAGACAA AGAAAAAGA 120
```

GATAAGACAC AGATAANTAA NTTCAGAGAT TAANAAGAAG CCATTATACC TGATACCACA 180
 GAANTACAGA GANTCATAAG AGACANTTAT GTTGTGCACA TGTACCCTAG ANCTTAAAGT 240
 ATAATANNCN NTANTTN 257

(2) INFORMATION FOR SEQ ID NO: 7504:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 328
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08746

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7504:

GATCTTACAG AGAAAGACTA TGAAATACTT TTCAAATCTA TTAATGGAAT CCTTNNCCCT 60
 GGAGGAAGTG TTGACCTCAN ACGCTCAGAT TATGCTAAAG TGGCCAAAAT ATTTNATAAC 120
 TTGTCCATAC AGAGTTTTGA TGATGGAGAC TATTTNCCCTG TGTGGGGCAC ATGCCTTGA 180
 TTTGAAGAGC TTTCACTGCT GATTAGTGGA GAGTGCTTAT NAATTGCCAC AGATACTGTT 240
 GACGTGGCAA TGCCGCTGAN CTTCACTGGA GGTcantTGC ACAGCAGAAT GTNCCAGANT 300
 TTCCCTACTG AGTTGTTGCT GTCATTAN 328

(2) INFORMATION FOR SEQ ID NO: 7505:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 102
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08747

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7505:

GATCAATTTG AAGTCCCTGT TTGGGAATAA GGCATTATC AGCATGAAGA ATTTTTTCTC 60
 ATTCTGTGCC ATTTTAAAAA TAGAATACAT TTGTATATTA AA 102

(2) INFORMATION FOR SEQ ID NO: 7506:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 343
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08748

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7506:

GATCACCTTC GNACGACTAC ATCGCCTGCT GCGTCAAACCT GAGGGCTCTT ACAGNCAGTT 60
 TTCGAAGNCG GGGTACTGCT CAGCAAGGTG TTGTGAATTT CCCATATGAT GATTTTCATTC 120
 AATGTGTCAT GAGTGTTTAA ATCAAGAGGA AGCTGCATGA ATGTAATCAA CATTCCAACT 180
 GGAGCTCTCC TTTGCTTGTC CTCTTTCCT TCGGTAATAT GTATAAACTT ACATCACGAC 240
 TTTCTCTTAA CAGCTGTTGT AAAGTTTATT ACTTTATGTA CAACTGAAGT TTTGTTTTAG 300
 TTTTGATAAT AAAATTCCTT GGAACCTTAA AAAAAAAAAA NGN 343

(2) INFORMATION FOR SEQ ID NO: 7507:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 342
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08749

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7507:

```
GATCCAAGTG CTTNTTTGGT ACCAAGAGAC CCGGNTCTNT GCCAGCATAA ACCACTCACA 60
CCCCAGGGGG ATGAGCTCTC TNAGCCCAGG ATTCTGGCAA GGGAGGTGAA GAAAGTGGAT 120
GCGCAGAGTT CGGCTGGGGA AGAGGACGTG CTCCTGAGCA AAAGCCCATC CTCACTCAGC 180
GCTAACATCA TCAGCAGCCC GAAAGGTTCT CCTTCTTCAT CAAGAAAAAG TGGANCCNGC 240
TGTCCCTCCA GCAAAAACAG CAGCCCTNAA TAGCAGNCCN CGGTCTTTGG GGAGGNGCAA 300
AGGNAGGCTC CGGTTGCCCC AGATTGGCAG CANNATTATN AN 342
```

(2) INFORMATION FOR SEQ ID NO: 7508:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 369
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08750

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7508:

```
GATCAAGCAA TTAATCTTCT GTAGAACCAA AATTNACTGT AATAACTTGG AGCAGTACTT 60
TATACAACAA GGAGGAGGAC CTGATAAAAA AGGACACCAG TNCTCATGTG TTTGTNTTCA 120
TGGTGACAGA AAGCCTCATG AGAGAAAGCA AACTTTGGAA AGATTTAAGA NAGNGATGT 180
AAGATTCTNG ATTTGCACAG ATGTAGCTGC TAGAGGNATT GATATCCACG GTGTTCTTA 240
TGTNATANNT GTCACTCTGN CCGATGAAAA GCAAACTNC GTACATCGAA TTGGCAGAGT 300
AGGGTGGAGC TGANGGATGG GTCTGGCAAT TNCCCTNGTG GCACCGAAAN NGGACAGGGT 360
TTNGTACCN 369
```

(2) INFORMATION FOR SEQ ID NO: 7509:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 335
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08751

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7509:

```
GATCTGGCCA GAGGGGTGTT GGAGCCCAGC CCACCCACAT ACCAGTCAAG CTCTTAGGGG 60
AGCAGAAGAA AAGCAGGAAG AATTTAAATG TTTAATTTT TTTNAAATT GACTTTNCTA 120
GTTATTAAAA GTTGCTTGTT TCAGCAGTGN TATTGTATAA NGACCATCTT GTAAGTACT 180
CCTGACATCT TGCTTTAGCA CATGTACAGT ACAGTTNCTN TGATAATGTG TTTGCCCTAA 240
CTNCCCTGGC TTCNCCTTCA GCCCATCCNC TCTCCTCTAG NGCAGTTGGG TTGGAGGCTC 300
NTTGAGGCAA GCNGCANCAT TGGNGGGGGT GCAGN 335
```

(2) INFORMATION FOR SEQ ID NO: 7510:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 270
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08752

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7510:

```
GATCCGACAC AGAGAACAGG AGGAACTNAG GCGACAGCAA GAGGGCTTTA AGCCAAACTA 60
CATGGAAAAT AGAGAACAGG AAATNAGAAT GGGTGATATG GGTCCCCGTG GAGCAATAAA 120
CATGGGAGAT GCGTTTAGCC CAGNCCCTGC TGGTAACCAA GGTCTCTCTC CAATGATGGG 180
TATGANTATG AACANCAGNG CAACTNTACC TGGTCCACCA ATGGGTACTG GTNCTGCCAT 240
GGGACCAGNA AGGNGCCGCA ANTNTNGGGN 270
```

(2) INFORMATION FOR SEQ ID NO: 7511:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 85
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08753

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7511:

```
GATCCCAGGA GAATCAGAAA CTCCAACATT TTGGAATCTT CAAGGGCACA TACTGAGAAA 60
AAAAATAAAA TTGTTTATGA GCAA 85
```

(2) INFORMATION FOR SEQ ID NO: 7512:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 66
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08754

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7512:

```
GATCAAACTA TACGCTGTCT ACAAGAGACA CTTTAGATTT AAAGACACAA ATAGGTTGAA 60
AGTAAA 66
```

(2) INFORMATION FOR SEQ ID NO: 7513:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 390
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08755

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7513:

```

GATCTTTTGT ACTGAGGTTT TTAACACTTT ACTTGGGTTT ACCAAGCCTC AACTGGACAG 60
ACCATAAACA GTCCACAGGC ACCGTTCCCTG CCAGGCCCCA ACCCACAGGG AGTCTNTCCG 120
CAGAGCCTTC TTGGTGTTC CCTAACTTGC CAGTGGCCTT TGCTCAGAGC CTCCTCCTGT 180
GACATGTGAA CAATGAAGAG GCCTGCGCCT CCTGCCTTGC CGCCTGCAA GCAAAGAAAC 240
TGCCTTTNAT TTTTAACTT TAAAAAGTAG CCAGATTAGT ANCANGACTG GCTGGCTTGA 300
TGAGCAAAGC CTTTGCTCTC ACGGNAGGAG GGTAGGGTTT NGGNTGTACA ATGGTAACTT 360
GCNNTGGGNA CCTTAAAAAG GGAGGTGNAN 390

```

(2) INFORMATION FOR SEQ ID NO: 7514:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      212
(B) TYPE:         nucleic acid
(C) STRANDNESS:   single
(D) TOPOLOGY:     linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08756

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7514:

```

GATCACCTGA GGTGAGAGT TTGAGACCAA CCTGACCAAC ATGGAGAAAC CCCGTCACCT 60
CTAAAAATAC AAAATTAGCT GGGCGTGGTG GCACATGCCT GTAATCCCAC CTACTTGTGA 120
GGCTGAGGCA GGAGAATCAC TCGAACTCAG GAGGCGGAGG TTGNAGTGAG CCACTGCACT 180
GCCTGGGCAA CAGAGCGAGA CTCCATTTC A 212

```

(2) INFORMATION FOR SEQ ID NO: 7515:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      136
(B) TYPE:         nucleic acid
(C) STRANDNESS:   single
(D) TOPOLOGY:     linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08757

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7515:

```

GATCCACCCG NCTTGNGCCC CCCAAAGTGC TGGGATTACA GGTGTGAGCC ACTGTGCCCC 60
GCCGAGTTAA ATATATTTCT AACATAGTAA AAAAAAAG GTANGTTNCA TTAAATAAAT 120
CCNGGAAGTN CAAATN 136

```

(2) INFORMATION FOR SEQ ID NO: 7516:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      160
(B) TYPE:         nucleic acid
(C) STRANDNESS:   single
(D) TOPOLOGY:     linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08758

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7516:

```

GATCATGAAG ATGGACAGAA CAGACACTGT GGCAATAAGA TACCAAATTG TAAACAGGAC 60

```

CTAAGGCCAT GCCAAGCAAG GGTAAAGTCA TGTAAGAGCCC GCCTTCATGC CCCGCCTCCC 120
 CTGCCCCCAA CTTATGAATA AACTATGTTC TAACTGCAAA 160

(2) INFORMATION FOR SEQ ID NO: 7517:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 355
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08759

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7517:

GATCTGGAAC TTGAAGATGC CATTACATACA GCCATCTTAA CCCTAAAGGA AAGCTTTGAA 60
 GGGCAAATGA CAGAGGATAA CATAGAAGTT GGAATCTGCA ATGAAGCTGG ATTTAGGAGG 120
 CTTACTCCAA CTGAAGTTAA GGATTACTTG GCTGCCATAG CATAACAATG AAGTGACTGA 180
 AAAATCCAGA ATTTTCAGATA ATCTATCTAC TTAANCATGT TTAAAGTATG TTTTGTTTTG 240
 CAGACTTTTT GCATACTTAT TTCTACATGG TTAAATCGA CTGTTTTTTA AAATGNCAC 300
 TATANNTCCN AATAANCTGT TAANCCNGGN ANANGGNNTT GTNTTNGTGN GGNTN 355

(2) INFORMATION FOR SEQ ID NO: 7518:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 77
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08760

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7518:

GATCTTCATT TTCCTGTTCT GTATTCTGCT ATGAAGTTCT CTGTTTTTCA AATAAAATTT 60
 ATGTGTTAAA TAACAAA 77

(2) INFORMATION FOR SEQ ID NO: 7519:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08761

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7519:

GATCATCTTG GAACTGCAAA 20

(2) INFORMATION FOR SEQ ID NO: 7520:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 247
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08762

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7520:

GATCGGAGGC TGCAGTGTGA CAGTGCCAGC CAATGTGCAG AGGTGGATGA GGTCTTGTNA 60
 AAACCTGGCT CCTTTTAACA CGGCCCTCAA GCTCCTTAAG TNAATTGCCG TAACTAATTT 120
 TAAAGGGTTT AGATTTTAAG AATGGTGCTC TTTCATGCCT ATNATCAGTA AGGGGACTTG 180
 TATTAGAGTC AGAGTCTTTT TATTTAGGCC AGTTGTCAAG TGTCAATAAA AGCATCATGT 240
 AATTAAA 247

(2) INFORMATION FOR SEQ ID NO: 7521:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 164
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08763

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7521:

GATCTTAATA TTGACTAGTT TCACATCCAG GTTCTAAGA AATGATAAGA TACTTCACTT 60
 TTCCAGAGTG AAATGTAGGA GGGAGCACAT TCTAAGTACA GCTAAAAATT TAGCTCACTG 120
 TAACACAGTT TCACTCTCTG AATAAATAAA GCAAAAAACA CAAA 164

(2) INFORMATION FOR SEQ ID NO: 7522:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 110
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08764

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7522:

GATCTGCCTG CGAAGCTCCC CACAACACTG TCCCTGGAGA CCACCCATGT GGCAGACACT 60
 CAAAATCTGT TGTATTTGCT AAATAAATTA ATATGGACAA GTTACCCAAA 110

(2) INFORMATION FOR SEQ ID NO: 7523:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 181
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08765

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7523:

GATCAAATTG TTCATGCCTT GGGATTTTTT CTCTATAAT TTGGATATCT TTNTCCATTG 60
 CTCATTTCTT TATTGAAGTT GCTTTCTTAA AAATTGATTT AACTTTGTCC TTGGTATCTT 120
 TAGTTCAGTC CAGAAATNAT TAATTGTGAT GTGATTAAAT TCATTTTTTG GTCTGGTGAA 180

A

181

(2) INFORMATION FOR SEQ ID NO: 7524:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 175
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08766

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7524:

```
GATCTGAATG GTTTTAATAA GGGGCTTTCC CCCTNCTTCG CTCTGCACTT CTCCTTGCTG 60
CCATGCGANG AAGGATGTGT TTGCTTCCCC TTCTGCCATG ATTGTAAGTT TCCTGAGGCC 120
TCCCAGCCA TGTTAACTT TGAGTTAATT AAACCTCTTT CCTTTATAAA TTAAA 175
```

(2) INFORMATION FOR SEQ ID NO: 7525:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 362
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08768

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7525:

```
GATCTGAAAA ATNCTTTTTG TCCTCATTGT TGCAGTTTCA ATTGTAATCC ATTGCATCTN 60
ATTTTCTTGG GTGTTGGCAC TGTAATATAT TAAAAAATAA TTCAGTGCTC AGTATTGTAA 120
CAACTGTCCC TACTGAATAT TCCTTTTCAT AAATACTTGC TACCACAGGG AAATTAAGTT 180
TTCATATAGA ATAAC TAGTT TCAGTAGTAA CCATTGAAGA NTTAANCNTG TGGTTCANGG 240
CAGATATTTT TCTGGAAAGT TTTCTCTATT GTANAATTTG TNGTATATGG CTATGCTGAC 300
TATCNTGGAT NCTGTCATGG GACATGCATT ACCACANNNTN CNNGCCCCTT TCTGTGGTNN 360
NN 362
```

(2) INFORMATION FOR SEQ ID NO: 7526:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 306
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08769

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7526:

```
GATCCCATGG ACATTGGGG AAAGGGCTCC TTGGGCTGCT GGTGAACCTC TGTGGCCACC 60
ACCTCCTGCT CCTGACCTCC CTGGGAGGGT GCTATCAGTT CTGTCCTGGC CCTTTCAGTT 120
TTATAAGTTG GTTCCAGCC CCCAGTGTCC TGACTTCTGT NTGCCACATG AGGAGGGAGG 180
CCCTGCCTGT GTGGGAGGGT GGTACTGTG GGTGGAATAG TGGAGGCCTT CAACTGATTA 240
GACAAGGCCC GNCCACATCT TGGAGGGCAT CTGCCTTACT GATTAAAATG TCAATGTGAA 300
TCTAAA 306
```

(2) INFORMATION FOR SEQ ID NO: 7527:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 76
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08770

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7527:

GATCTTTTAG TTATCAAACT GTTAAATACA TTTTAACTTT CAAATTTTAT GAATAAAGGA 60
 GATGAATCCT GTTAAA 76

(2) INFORMATION FOR SEQ ID NO: 7528:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 74
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08771

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7528:

GATCTGAAGT CTGATTGTGT GTACGTTCGC GCGTGCCTTA GTCCCTGCCA CGATTAAAGA 60
 CTTAGACCGN CAAA 74

(2) INFORMATION FOR SEQ ID NO: 7529:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 102
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08772

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7529:

GATCGCGCCA CTGCACTCCA GTCTGGTGAT AGAGCAAGAC TCCATCTCAA AAATAAAAAA 60
 TAAAATGTTG GNTGTGGGGA GCCAGGCCTC TCACAACTGA AA 102

(2) INFORMATION FOR SEQ ID NO: 7530:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 312
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08773

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7530:

GATCGAATCC AGGCCCTGGG GCTTCANTTG CCAGACCCAC CATTAGAGAG TGAAGATGAA 60

GATGAGGAGG GAGCTACAGC GTTGAACAAC CACAGCTCTA TTCCCATGGA CCCAGAACAT 120
 GTAGAGCTGG TGAAGAGGAC AATGGCTGGN GTAAGCCTGC CTGCGCCAGG GGTTTCCTGCC 180
 TGGGCTCGGG AGATATCGGA TGCCCAGTGG GAAGATGTGG TACAGAAAGC CCTCCAAGCC 240
 CGGCAGGCAT CCCCTGCCTG GGAGTGACCA CAGTGAGAGC TGCCTTATAT TCCTACATTC 300
 CAGGCCAGAA CN 312

(2) INFORMATION FOR SEQ ID NO: 7531:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 186
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08774

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7531:

GATCTGGACT GAGGACCCTG CTAATCCCCA AGCCAGAGCC CATCAGCCAG GCCTGCTGTG 60
 AGCCACCTGC CTGTGGAGTG CTGAGCTCAA CCAAAGGCTG GCAAGCTCTG GGCCTCATTT 120
 AAGGGATTCT GATGAGCCGA TGGGCCCTGG AGGCAGCCCA TTAAAGCATC TGGCTCGTTT 180
 TTGAAA 186

(2) INFORMATION FOR SEQ ID NO: 7532:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 390
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08775

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7532:

GATCACATTG CCATTCCTCC CCTCCAGAGG TAACAATTAT CCACAATTTG ATGTTTATCA 60
 TTCCTGTGTT GTTGTACTTT CACTGTGTAT AACCTAANNC NTCTACTNTT TAGTACTGTT 120
 TTATATATTT TNAAGCCTCA TACTTGCTCA TTCTACAGCT TTTTTCACCTC ATTATTGTAT 180
 AATTATATCT GANGCNCTCG TTCATTAATT TTAGTCCNGT GTAGCAGAAT TCAATTACGG 240
 GAACTACCAT AATTTATCTG TNCTCCAGTT GAAGGCATGA NGTTGTTGCC AGTTTCTGTA 300
 TTATAACCAC TGTAGTGGGA CCATTCTTCT GCNTTGGGCT CACTGCGGGT TACCNAAGNC 360
 GGTNCCNCAG GATAANCCCC ATTTGGGNTN 390

(2) INFORMATION FOR SEQ ID NO: 7533:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 378
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08777

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7533:

GATCTAGCAT GTGGATTTTA AAAGATTTGC CCTCATTAAC AAGAATAACA TTAAAGGAG 60
 ATTGTTTCAA AATATTTTTN CAAATTGAGA TAAGGACAGA AAGATTGAGA AACATTGTAT 120

ATTTNNCAAA ANCAAGATGT TTGTAGCTGT TTCAGAGAGA GTACGGTATA TTTTGGTAA 180
 TTTTNTCCAC TAGCAAATCT NGATTTNGTT TGATAGTGTG TGGAATTTNC TTTTGAGGGA 240
 TAAGACCATG GGANANTTGT GGTAAAGACT GTTTGTNCCC TTCATGANTN CTTCTGAAGT 300
 TGCCNTCAGT TTTNCTAATC TCCTGTGAAA TGCCTAGGTT TTGCGCCTGT CCCACTTTTT 360
 NTTTGTGGGN CTTATNTN 378

(2) INFORMATION FOR SEQ ID NO: 7534:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 175
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08778

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7534:

GATCATTTGA GTGAAAAAAA GGTACCTGTN CAAGCAAGCT CCTGGACACC ACAAGAAGGA 60
 GGAATTATTT TAAAAAGCTGT ACTCTTAAAT TGTNAGTATC TTTAAATCA GTTGTGAACA 120
 ATGAAGGATT TGAAAGAGCA TTGACTTTGC CACTTAAAG TATTTCTAAA ATAAA 175

(2) INFORMATION FOR SEQ ID NO: 7535:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 159
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08779

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7535:

GATCAAGGTG AATTTTTTGT ATCACTGCCT GTGGAAATCT ATCCTCATCA GTNATTGCAT 60
 TTTTCCCTGC CTATACCTGT GCTCCTTTTT NTNACTGTGT TTTCAGTCAC TTCCTTTCTG 120
 TNAAAGGTTG CTTAGCTTTT NTTTTNAANA TTTGTTGTN 159

(2) INFORMATION FOR SEQ ID NO: 7536:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 304
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08780

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7536:

GATCCAAACC CACAGTNTTG TCCTGGAGGC AGCAGGGGTG AAGGTGGAGG GTCCAGGGCC 60
 ATGAGGAGCC CCCTTGCCAT CAGAGCCTGG CCTAACCACC CTCTTCTCTA CTTACACACA 120
 CATGCATTTT ATAATAGCTC TGACCCAACC TGGCCACTCT GCAGAGACTG GGACAGACAG 180
 GTGCAGGCAA TGGGCCCTCC CACACCCAGT CACCTACAAG GAATTTTCAA ATCCACTTTT 240
 AAAACAGAAA CCGGTAAATG CGCCGTATTG TATATTTTAT TTAAATAAAA AAAATTCCAG 300
 CAAA 304

(2) INFORMATION FOR SEQ ID NO: 7537:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 110
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08781

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7537:

GATCCACCCT TCCTGGGCCT CCCAAAGTGC CGGGTATTAC AGTCATAAGC CACCACACCC 60
 GGCCTAACAT GCATTTTTTTT AATTCAATAA ATATTTATTG AGCACCTAAA 110

(2) INFORMATION FOR SEQ ID NO: 7538:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 160
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08782

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7538:

GATCCCCTCC CCTCCTGCTT TTCTGTATTT TTTAAAAATT ATTTTGTTTT TAATTCACAA 60
 ATATTGTATA TGTTATATGG GGTAGAATGT GATGTTGATA TATGTTTAAA ATGTGGAATG 120
 ATTAAATCAG GCTAATTTAC TTTTTTTTNC NAAAAGGAAA 160

(2) INFORMATION FOR SEQ ID NO: 7539:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 219
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08783

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7539:

GATCCACCCA GTTGCTCAAG TAAAAACCT GAGAGACACC TTACGCCATC TGGGAACTTG 60
 TTAGAAATTC TTAAACCTCA TTCTATACCT GCTAAATCAG AAAATGTAGG GATTAAGTCT 120
 GATTATTTGT GTTTTCGCAA GTCATCCNGG TGATTCTGAT GCATGGAAAG TTTGAGAACC 180
 ACTGGTTTAG GTTATTAAAA GTTCTTGTCT CCCTATAAA 219

(2) INFORMATION FOR SEQ ID NO: 7540:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 355
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08785

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7540:

```

GATCAGAGAA GACTTTAAAA CTCTTGACTT AATTGAGTAA ACTCTTCATG CCATATACAT 60
CATTTTCATT ATGTTAAAGG TAAATATATGC TTTGTNAACT CAGATGTCTG TAGCCAGGAA 120
GCCAGGGTGT GTAAATCCAA AATCTATGCA GGAAATGCGG AGAATAGAAA ATATGTCACT 180
TGAAATCCTA AGTAGTTTTG ANTTTCTTTG ACTTGAATCT TACTCATCAG TAAGAGAACT 240
CTTGGTGTCT GTCAGGTTTT ATGTGGTCTG TAAAGTNAGG GGTTCTGTTT TNGTTTCCTT 300
ATTTTGAGGT AAGAGTACTG CTNGGTGGTC GGGGGGGTTA TATNNTNCCC TTTTN 355

```

(2) INFORMATION FOR SEQ ID NO: 7541:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      314
(B) TYPE:        nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

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(vii) IMMEDIATE SOURCE:

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(B) CLONE:  HUMGS08786

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(ix) FEATURE:

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(D) OTHER INFORMATION: "N"=unidentified base

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7541:

```

GATCAGGTTT CCCCTCAGAA CCTGTGTTGC CTGCCTGCTG TATCTTCCAT GTCTTTCTTA 60
TTCAACTTCT AGAAGTAGAG AAGGTTGGGA CTTGAGTGTA GAAGAAACAT CAGAATAATT 120
TCAAAAAACA GGAAGTTGGA ACTATAATTT TTAAATTATT GTATTGTTTT TACGGATTTT 180
ACATGTATAG TTAAATATTA ANNTTCATCT CTTGCAGTTC ANTAAAAGCT ATAGTATAGA 240
TTTTATTTTT AAGAAGTTTA TATAATNCTT TTGTGAGCCA ATATGTAAAA CTNGAATATT 300
TATTTANCCT ANTN 314

```

(2) INFORMATION FOR SEQ ID NO: 7542:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      298
(B) TYPE:        nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

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(B) CLONE:  HUMGS08787

```

(ix) FEATURE:

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(D) OTHER INFORMATION: "N"=unidentified base

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7542:

```

GATCACAGAG AAAGTGATTA CAGACATTGC TGGGGTAATA CCAGCTGAGA AAATTGATGG 60
AGTATTTNCT GCCTGTNAGA GTGGCTCTTT TGACAAACTA GANGCTGTGG TCAAGGATTT 120
AATAGATGAG GGTCAATGAG CAACTCAGCT CGTCAATCAN CTCCATGATG TGGTTGTAGA 180
AAATANCTTA TCTGATAANC AGAAGTCTNT TATCNCAGAA AACCTTGCCG AGGTTGCCAA 240
ANGCCTGGCA GATGGTNCTG TTGTCCATTT GCANCTCATC NGCCTTTTNG CCCTGNGN 298

```

(2) INFORMATION FOR SEQ ID NO: 7543:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      32
(B) TYPE:        nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

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(B) CLONE:  HUMGS08788

```

(ix) FEATURE:

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(D) OTHER INFORMATION: "N"=unidentified base

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7543:
GATCAAAATT AAAGACAGTT AAAAAGGTGA AA

32

(2) INFORMATION FOR SEQ ID NO: 7544:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 249
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08789

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7544:

```
GATCATCATT TATTGCATCT CATAACTAAA TTTNNTAAAG TTTGGATTGG GACTTTTNAG 60
GTCCTTTTTG GAGGGCAAAG GAAGTGCCAG CTTCTNTGGG GAACTTGTTT TTAAATCCAA 120
AGACTTGAAC CACATTCCTT GCACATGANC ATGTTTGCTT TTATCCCTTC TCTCATTGTN 180
TCCTACCCAT CTTAGTACCA TTGTGGTTAT AANCATCTGC ATTTNTNAGA AGCATTNAC 240
CCATTTNNN 249
```

(2) INFORMATION FOR SEQ ID NO: 7545:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 257
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08790

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7545:

```
GATCATATGG AATGTACTAT TTTGTAATGT CTTTTTTCAT TTTACAATGT ATTATCAACC 60
TTTTCCCTCT CAAAATACA TTGTGAATGA CTGCATAGTA TTCACTTTAT GANTATTTAA 120
TTCATTTTAC AGTCTTCTAT TGTNGGACCA CTNACATTGT ACCAAATGTT TTCCTTTGGT 180
TTATTCTTTA ATGTATTAGT ATTTTACTGC TGGTCACTCA TGGAATCCTG CAGCTTTANT 240
NAAAAGCAAG GATGAAA 257
```

(2) INFORMATION FOR SEQ ID NO: 7546:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 158
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08791

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7546:

```
GATCGTGCCA CTGCACTCCA GCCTGGGCGT TGCAGTGAGA CTCCGTCTCA ACAACAACAA 60
AAAGGTGGAT ACATGTCAAA AGGGCACAGG AGCCACTTGA AGGATTATAC TTGCTAAATC 120
TGTGTCAATT ATCAAAATAA ACTGGTAGCA ACGTTAAA 158
```

(2) INFORMATION FOR SEQ ID NO: 7547:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 128
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08792
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7547:
 GATCAAAGGG ATGAGCAACA GGGACTTCTG CCACAGTGAC AATGGAATTG TGTTGTGCCT 60
 TACTTCAGAG GTGGTCTCTN CTTTCTTGTA ATAAAGCAA TATTTATGCG GAAAGCAAGC 120
 AGCTCAAA 128

(2) INFORMATION FOR SEQ ID NO: 7548:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 205
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08793
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7548:
 GATCACATCA AGCTAAAAAA CTTCTACACA GCGAAGGAAA CAAAGTGAAC AGAATAACAT 60
 GGGAAATGTTT TCTGTAAATTT AGTAGTAAGT GGCAATAGTT TACAAACACA TTTTGTGTAT 120
 ACTGCTGTCA TTGCACTGNT TACCTTCTGT TGTAGTGACT TTGTTCTATT AGTCCACTCA 180
 ATAAAAATAT TTGGTTTTGT TTAAA 205

(2) INFORMATION FOR SEQ ID NO: 7549:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 372
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08794
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7549:
 GATCTTATTT TTAATGTAGT GAGGATATTA TTAAACTTT TATTTTAACT GGAAATGTCC 60
 TGAAACACAT ATTTAAAAATA TTGGGATACA GTGAAAGAAA AATTCAAATT TTAATAACAT 120
 AAAGATTTCC TAACTTTATG TTATTGANCA CTTACTCACT AGAAGTGAGT TCTTTAGAAA 180
 ANTACAGTGA AGGACTCAGT TCAGTCTTGT TTTTATCAGA GTGATAATCA TCCTGTTTCA 240
 CATCCCAATA CTATTTTGAN ATTCTAAACA ATGGAACCCA AANTNCCAAT AANTATAAGG 300
 TTATGCCTTC AATATATTCC TATACANTTC TGTAACCATG GTTTANNATA CACAAGCTTA 360
 NNATACCATG GN 372

(2) INFORMATION FOR SEQ ID NO: 7550:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 97
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08795
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7550:
 GATCCGGTNG TCTAAATGCA TTCATATTTT TATGATTGTT TTGTAAATAT CTTTGTATAT 60
 TTTTCTGCAA TAAATAAATA TAAAAAATTT AGAGAAA 97

(2) INFORMATION FOR SEQ ID NO: 7551:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 244
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08796
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7551:
 GATCTGGGTT TGGCATTAGA AGTATTTTCAT AATTTTGGTT TTNATTAG GTTTCCTCAA 60
 CATCTGTAAA GTGATTGATT AAATTAGAGG AGGCGTGTAG AATAAATCCC AATCCCATTG 120
 CAACTGGCAG AGCATTATAA NTNTTTATAA ATNCAGTTAC AACAAAGGAG AGGNTCTACA 180
 TTCTTCAAAA AANAAANTTG GCTTACCTGT TTCANCTTTN GGTGGCATT NNCTGCCATT 240
 NGTN 244

(2) INFORMATION FOR SEQ ID NO: 7552:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 364
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08797
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7552:
 GATCTGGGAA TTACCCATCA TCATTAAGCA ATGAAACAGA CCGGCTGGTG CACTGGTGCC 60
 ACGGCGCCCC GGGGGTCATC CACATGCTCA TGCAGGCGTA CAAGGTCTTT AAGGAGGAGA 120
 AGTACTTGAA AGAGGCCATG GAGTGTAGCG ATGTGATTTG GCAGCGAGGT TTGCTGCGGA 180
 AGGGCTACGG GATATGCCAT GGGACTGCTG GCAACGGCTA TTCCTTCCTG TCCCTTTACC 240
 GTCTCACGCA GGATAAGAAG TACCTCTACC GAGCTTGCAA GTTTGACAGAG TGGTGTCTAG 300
 ATTACGGAGC ACACGGGTGC CGCATTCTCTG ACAGACCCTA TTCGCTCTTT GAAGGCATGG 360
 CNAN 364

(2) INFORMATION FOR SEQ ID NO: 7553:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 129
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08798
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7553:
 GATCTGTGTG TCTCTGTTTT GAGTTTTTCC TGTTTATTTT GAAAAGTACT GTTGGTCAAG 60
 ATAATTGGTC AATAATCCAT GTTGGTTTTA ACAAAAAGCA TTTTAACATT AAAAATATTA 120
 CAGTATAAA 129

(2) INFORMATION FOR SEQ ID NO: 7554:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 316
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08799

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7554:

GATCACATTT TNATTTTTTN TTCTCCACAT CAGGATAGTT TACTGAAGCA CAATCTCTTA 60
 TACTAGTGGG ACAAAAGGGA GAAAAAGGAA GCAAGATAAA TGGGTATGTA GGATGAAGGG 120
 TTATTTAAAA TGGAATAAA GATAGAAGGA GGACTGTAGG AAGANATGGA ATNNTTTANN 180
 TNTGAGGAAA GATATCTNTG GTAGACATGT CCTTCCATGA CTAATTTCTA ATTGTNACTC 240
 ANCACACATT GAGGTATGGN CCCTCCTCAG TGACTTTNAC TAGCTCAGAN ACGTACTCCC 300
 CCACCANCCC CACCTN 316

(2) INFORMATION FOR SEQ ID NO: 7555:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 365
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08800

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7555:

GATCAGTGGA ATTCTTGGTT TGATGATAAC CTTATTAATT GAAATNTTTT ACTGATGTGG 60
 CTTTAAAAGA GGTTTATNTT GTATATGTTT AGAACTCTCT GATTTTATATG AATTATATGG 120
 GAATGAGAAA CAGAAGAAGT GGTATTTNCT GGCGAGTTAA ATAGGCAAGG TACCCAGTGA 180
 TAACACCAAC CAAACCACTC CTATCTGCAT GATTCTGAAC ATCTGGATGC CTGTGGTTTT 240
 ACTGTGTATA TNTNATTTTT AATATATTAC CTTTGTGGAT NCATTTAAGG TCTACTCAAA 300
 NGTANCACTG TCAAAACCAC TAATATGTAT GTNAAANTTG TNCTGTNTAC TACATTACNG 360
 TNCAN 365

(2) INFORMATION FOR SEQ ID NO: 7556:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 349
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08801

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7556:

GATCTTGAGT AACTGAACTT ATTTCCCTTA AGGTATAAAA ATTTAAATAA CCTGTATATA 60

TTTGNTAACA NCTTTATNAG GGAGGTAAGT NACTTACAAT ACATTGCACA TATTTAANGT 120
 ATAGANTTCG ACGAGTTTTG ATGTATGTTT GCACCTGTGA AACCATCACA ACAAACAGTG 180
 AGCATATCTN TCACCCCTAA NNGTTTCCTC CTGTCCCTTG GTAATCCCTC TTTTACCTGT 240
 CCCACTTCTG TTCCTCAAGA NCCACTTACC TGCTTTNNTN ACTGTTAATG TACGTGAGTT 300
 TACATTTTTG AGAGTTTTAT CCAAAGGGNA TCATGANGTA TGTNCTCTN 349

(2) INFORMATION FOR SEQ ID NO: 7557:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 369
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08802

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7557:

GATCTNATCA ATCTAGCGGG AGAGACAGGA TAACCTGTCC GAAAGTATAG CGCCACTATN 60
 ACTCCGCCGG AAAAATTACT TTAAAAATCG CCAAAAATTA CTTGGAGCAA AGGGCAGTCG 120
 GCGGANTTCG CCAAGGCTGG CGCAGTCGGT TTTNACCTGT AGCAGAGAAC CNGGNCTGGA 180
 GAACAGCCTC ACTTCTTTNA TTGANTACTT ACATAATGCA TTGGAACATG ACATGAGATT 240
 AAGGTTTAAT AATGATAGAN TGAAGACCAC AATAAAAGAG ACCTCTACTT AGCTCAGCAA 300
 TTCTTACCTT TCTTACCTAT TTGATGGAGG NTGTCTTTTG ANAGGTGTNC TGCAGGGNCC 360
 AAANTGTTN 369

(2) INFORMATION FOR SEQ ID NO: 7558:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 290
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08803

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7558:

GATCTTGAT GCCAACTTT AATCTGCTTT TATGTTTTCA GGCTGAAGGT GTGAAAATCC 60
 TAAGAGGATT TCATATTGAA TATGTGTACA CAATCTTAAC TATCGTGGTG GAAAACATAC 120
 TACTATAATT NATTATTATA TCTNCCAGAT AATGTTATTC ATTTAGAACA AATAAGGTAT 180
 ATTTNTNAGA ATCANCTTTG TAAGCACTAT AANNNCTTTN ATAAGTTATA AGGTCTATGA 240
 TGTGTTTACT TTAANNCTTG CTGTTAANAG CAACACGTAT TANNTATGTN 290

(2) INFORMATION FOR SEQ ID NO: 7559:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 55
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08804

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7559:

GATCTGGATA AATTTTCATT TCTACTTAAT TAAACTTCC TATGTAAAT CCAA 55

(2) INFORMATION FOR SEQ ID NO: 7560:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 109
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08805

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7560:

GATCCCGAAT .CCCAGAAATA ATTCTAGNG CACCTATCAT GACTATTTAT TTAATCTCAG 60
 AAGCTGAATC TGTACGTATT TTTCTCCAGG TCATCAGCTT TGGGNNNNN 109

(2) INFORMATION FOR SEQ ID NO: 7561:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 40
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08807

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7561:

GATCCTACTC TCTTATTAAA ATCTTGAGTT TATGTTCAAA 40

(2) INFORMATION FOR SEQ ID NO: 7562:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 338
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08808

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7562:

GATCTGCCGA CCTCGGCCTC CCAAAGTGCT AGGATTACAG GTGTGAGCCA CCGCGCCCAG 60
 CCATAACTTT NCTCTTTTCT CCATTAGCTA AAAGATAATA GTAAAACGTA TATTTGAACA 120
 CTTAATTTTC TCTATATATC TTTNAGGAT TATATTTAGT GTATTTCCCA ATTTTCCTAA 180
 AATGATTATC ACTTCTGTAA AGAAGAAAAC AATACTACTG GTATTGCATT TGGAAATATT 240
 TTNCTATTAA NNTGTCTCAT TTCCTTTNCA TGTATGCACA TACATGTNNT TNGTATAGCT 300
 CCTTTNNTCA AAANNIATTC TGNGGTTATT ATTTANNN 338

(2) INFORMATION FOR SEQ ID NO: 7563:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 338
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08809

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7563:

```

GATCTTGTGG TCAAGAGCAA TCTGAATCCA AATGCAAAGN AGTTTGTCCC TGGGGTGAAG 60
TACGGAAATA TTTAAGTAGA CGGGGCCCTC TTTTGGTGGA TGTAACACAA TTNCCACACT 120
GTGAAGGCAG TATTAGAAGA CTTAATTGTA AAANCNCTCT TGTCACCTGTG TTACACTTAT 180
GCATTGCCAA AGTTTTNTN AGTCTTGCAT GCTTAATAAA NGTNCTGAGA CTGTTACTAA 240
GTAAAANGCT GTCAANCATT TCCTGANAAT AGANTTGGCC CCATGGCTTG ATGTGAAGAC 300
AGCAAGGNAA GANGCACCAG TCAAGTTGTG ANCAAGNN 338

```

(2) INFORMATION FOR SEQ ID NO: 7564:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      324
(B) TYPE:         nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08810

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7564:

```

GATCCCTGCC ACAAGTTCCT TGGGCAGTGG CCATGTCACC ATTGAGATGA AGATATACAA 60
CAGAAAATAG TGGCTGTGTT TGGAAGCTTC AGCCCTGCAC ATTTGAACTA GTCACCTCTCC 120
CAGACTTGCG TGGGTCAAGT CTTTCTGAGT AGAGGACTTG CTGGTAAAGG GGCAGATGCT 180
TTTTATTAGT ACTGATAAAA CAACTGAGG GAAACATCCC TCTTAGCTGG GAAACTTTTA 240
CTCTTCAGGA GCTTGGCATC ATGGACTGTT AATGTATGTG ATTTTCCCCC TATTTTCTCT 300
CTCCAAAATG ATAAAAACAA TAAN 324

```

(2) INFORMATION FOR SEQ ID NO: 7565:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      318
(B) TYPE:         nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08811

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7565:

```

GATCCCACTA CGAAACGCTC CAGAGGCTTC GGTTTCGTCA CGTTCGCAGA CCCAGCAAGT 60
GTAGATAAAG TATTAGGTCA GCCCCACCAT GAGTTAGATT CCAAGACGAT TGACCCCAAA 120
GTTGCATTTC CTCGTCGAGC GCAACCCAAG GTGTTCTAGC TGAGCGTTTA AGAGCATGGA 180
CTCTGGAACC AGACTTTGAA TCCTTGCTCT GCCACTGCAG CTGTGTGACC TTGAGCAAGC 240
TATCTAAATA TTCTGTGCCT TTGTTTTGTC ATCTGTACAA TGGAGATGAT GATGGTATCA 300
CCTTCATGGG GTTGTGAN 318

```

(2) INFORMATION FOR SEQ ID NO: 7566:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH:      313
(B) TYPE:         nucleic acid
(C) STRANDNESS:  single
(D) TOPOLOGY:    linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08812

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7566:

GATCTGAGAC TCAGGAACCT TGGCCCTTT GTCACCTACA ACTGTGTGTG AACAGGACTA 60
 ACAGTTTGGA CTGAGAGCAC TGANGCTGCT GTGTGTTGTG CATATAACTT AATGCTGTGT 120
 GTTGTGGCTT GCACTGCTGT GGGGGCGGGG AGGGCAGTGG TGGGGAATGG CTGGCATGAA 180
 GCTTGCTTGA GCCAATGCTA TGCTTGCTGG GCTTTGGCTG ACTGGCTTTG GGCCACCAAC 240
 TGTATTTGCA TAGTGATGGC TTGGAAGTGT CCATAGAAGG GATTGCAATA AAGGTGTGTC 300
 TTCCTTCTAA AAA 313

(2) INFORMATION FOR SEQ ID NO: 7567:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 316
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08813

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7567:

GATCTTGAGT CAGAGAGGAT TGGAAGTGCT TTCTCCTCCA CCCAGGTGAG GTCAGGGGAG 60
 CTTAGGTCTT AGGGAGATGG CAAGTTGAGG TATGAAGGGA AGCTGGGGCT TTTGGAGCTG 120
 CCGAACAACCT GAGGGACCCA GTGCGCCTTC CATCCCGCAC TAGTGAATAG CGCCCCCTCT 180
 TCCCCCGAAA ACGAGGTGCG AGAGGAACAA TTCCACGCT GGGGAAGGAC TTGTCTCCTT 240
 TTCTGTGAAA ATGCTTTGTA AAAAGTTGTT ATTGTTTGCA TAGAGCAGAT TCTTGAGAAA 300
 AACTGTTTTG GACCAN 316

(2) INFORMATION FOR SEQ ID NO: 7568:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 316
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08814

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7568:

GATCCCCGTC TGCTGACCAG CTAAACACCA ATTTCTTCCT GCTTTTCTCC ACTTGTTTGT 60
 GAAAATCACA CAGTTTTTCAG GCTCCATCTG TTTGGAGAAA ATACATTCTG AAGCATCCCC 120
 AATTACCTT CTAAAACTC ATGTGCAGGT TTGATAAACA CCAGAACAGA AGACAGTGAT 180
 GCTGTATTAT TTTAGATTTA TTACATAGAT TTGGAATTCA CTTTTTTCAT GACCTAGAAA 240
 AAAACATTCC AGTGTTTCANC TGTTTTNTAT TATTANGGGG CTTTTNATTT GTGAACTTCT 300
 GANGGCATGA GTGTTN 316

(2) INFORMATION FOR SEQ ID NO: 7569:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 226
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08815

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7569:

GATCTGGTGT ACCAGGCGAA GTGGTCCGAG CAGGCTGAGC GATACGACGA AATGGTGGAG 60
 TCAATNAAGA AAGTAGCAGG GATGGATGTG GAGCTGACAG TTGAAGAAAG AAACCTCCTA 120
 TCTNTTGCAT ATAAGANTGT NATTGGNGCT AGNNGAGCCT CCTGGAGAAT AATCAGCAGC 180
 ATTGANCAGA ANGAAGAAAN CAAGGGAGGA GAAGACAAGC TAAANN 226

(2) INFORMATION FOR SEQ ID NO: 7570:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 306
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08816

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7570:

GATCAAGAGT TAAATAAAAA GCCCCAGGAC GAAACAAGAN GAGAGCACTT CATGCCCTGT 60
 GGTACAAAAA AGAGCAGCTC TACTTAATGC AATTCTTCAT TCAGCATATA GCGAGACATT 120
 TCTCCTGCCT CATTTGAAAG ACATCCCAGC ACAGCATATC ACGCTGTTTC TTAAGTATTT 180
 GTATNNNNNN GTACCTGAAG TGTAGCGAAA ATNCTACTAT GACTCTNCCT GGAATACACC 240
 CACCTACCTT GANCCAGATT ATGGATTGGN TATGTCTACT TCTGGATGCA AATTTTNCCTG 300
 TTGTTN 306

(2) INFORMATION FOR SEQ ID NO: 7571:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 304
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08817

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7571:

GATCCTGCGA GGGTGTCATA ATACCTTGCT TTTCCATGCT TCCTGTATAT TTATCCATTT 60
 CAGCACATCT GCAGTAGCAA TAACTNCTNA TTTNTAAATT TNCTTTTGTT GGGGGAGACA 120
 GGCTTATGGC TGTCTGAGCA GCTGCTGTAG TGTAAGCAGT GAGGTTAGCA GTGGTTGTNA 180
 GATTTNCTCA TTCCTGAGCA CCATGCTGTT GTGTCAGCAG TTGTAATGGA CTGTGTGGGC 240
 ATACTTCCAG TAGGTGATGC TTGCAAGTAN GANCCAGCTG CAGTGGTAGC AGTAGGGTTT 300
 GTAN 304

(2) INFORMATION FOR SEQ ID NO: 7572:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 30
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08818

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7572:
GATCTGTACA AATAAAATNC CAAGTCCAAA

30

(2) INFORMATION FOR SEQ ID NO: 7573:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 118
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08819

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7573:

GATCATCTCT CCTTGGGTTT TNNTTTAAAA AGGGGAATCT NCTATAAAGG TTCTNTTGCT 60
TCAAACCAAT GTCAAATAGA CTTNATTTTA AGAGTCATGG AATTACAGTG CAACCTTN 118

(2) INFORMATION FOR SEQ ID NO: 7574:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 53
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08820

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7574:

GATCTACCTA TACAGTCCTA CATTAGCTTC TAAAATATTT GTCAGGAGGG AAA 53

(2) INFORMATION FOR SEQ ID NO: 7575:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 102
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08821

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7575:

GATCCCGAGG CTTTGTCTTC CTCTCGTCAG TTCTTTTGGT TGTGTTTTTT GTTTTTNTTT 60
NAANAACCTCA AAAAAAAAAAN AAAAGACTTG GAGGAAGGGA AA 102

(2) INFORMATION FOR SEQ ID NO: 7576:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 362
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08822

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7576:

GATCCTACTG ACAGCCATCG TGCAGGTGCT CAGCTGCTTC TNTCTCTATG TCTGGTCCTT 60
 CTGGCTTCTG GCTCCAGGCC GGGCCCTTNA CCTCCTGTGG GTGAATGTNC TGGGCCCCCTG 120
 GTTCACTGCA GACAGTGGCA CCCCAGCACC AGAGCACAAT GAGAAAACGGC AGCGCCGACA 180
 GGAGCGGCGG CAGATGAAGC GGTTATAGCC ATTGANATTG TGGCCACAGG CCACTGGGGCC 240
 CTGGGTGGCT CTGTNAGGGT GCACAGCCCC TCATGCCTGG AGCAATGAGG GTCTAGTCCA 300
 GGGGCCAAAA GCAGTCTTGA GGGTATTGGG GTATACTTAT ACTCTATAGG GGTCGTTTGA 360
 AN 362

(2) INFORMATION FOR SEQ ID NO: 7577:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 109
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08823

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7577:

GATCACTCAT ATAACATGTC ATTTTTTTGG TTCTGTTTTG GTTTGGTTTT TGCCAATNAT 60
 TTTGTTATAT TTCCAAAAA CTAAATAAAA ATNATTTTAA TTTTNNAAA 109

(2) INFORMATION FOR SEQ ID NO: 7578:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 361
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08824

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7578:

GATCTTCACG GGGCTATTAT TTCAGTGACA AAATCCAAAT GCCCCTCTTA TGTGGGTATT 60
 ACAGGAATCC TTCTACAGGA AACAAAGCAC ATTTTCAAAA TTATCACCAA AGAAGACCGC 120
 CTGAAAGTTA TCCCCAAGCT AAAC TGCGTG TTCACTGTGG AAACCGATGG CTTTATTTCC 180
 TACATTTACG GGAGCAAATT CCAGCTTCGG TCAAGTGAAC GGTCTGCGAA GAAGTTCAAA 240
 GCGAAGGGNN CGATTGACCT GTGANTTCTT TGCCGTCTAA GGCAGTTGTT TATGACAGCT 300
 GAAAACTGGA CACTCCCTAA NTGTCCACCT TTCAGTGAAG NGATAGTTAA GCCAATTCCN 360
 N 361

(2) INFORMATION FOR SEQ ID NO: 7579:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 323
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08825

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7579:

GATCCAATTC GTGCTGTGG ATGCTGCAAG GACTGGCTCA TTGGAGCCAA ACCATGTGGC 60

```

GGAAACTCCT GAAATTGGTG GAAAAAGTGG AATATGGCAG ATTGGGTAGG TAGGAGAACA 120
ATTTTGGAGA TTTTITTTCT TATGTTAAAG TGTCTGCATT TTATTTGCTG TACCCTGCCT 180
ACTCTGGTTT TNAGGATTTT TTGACTTCTT CGAAAAGCAC TGAATAATCT CTTTNCCGGG 240
TCTAGATTTT TTGATGAGTA CTGTGTAAAA TTGTCAATAT TCAATGGATT ATTTAATAAT 300
ANNTTAAGAN TTCCACTCAT AAN 323

```

(2) INFORMATION FOR SEQ ID NO: 7580:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 183
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08826

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7580:

```

GATCCTAAGT TAAGACTCTC CAAAGCAAAC ANTTGGTTTA AATCATTTAT CTGATGTAGA 60
TAAAAGGTAG AGAAACTTGT AGTGTTCTCC ACATAATGGA AAATGTACAA ATGCCTAGTT 120
GTGTTGCCCA TCAATTTTGT ATATNTCCAT AATTTTNATT GTTGANAATT GCATTATNTT 180
TTN 183

```

(2) INFORMATION FOR SEQ ID NO: 7581:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 350
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08827

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7581:

```

GATCCACCTG CCTCGGCCTC CCAAAGTGCT GGGATTACAG GCAGGAGCCA CCGCGCCTGG 60
GCCTTTTTTT AAGTTTAAAG NNCCNATAAA GNCAC'TGAAA GGTGATGTGT GTGGATGAGC 120
TAGGAAGACC TGAAATAGGC TCTCTCTAAA TTAATCAAAT TAATCCTGAA GCCATTCTGC 180
AATACTGTCT TTAATGTATA CTCAC'TTGTT ATAGAAGCCA GGGTTTTTNC CCCTAATTTG 240
TATCATTGCT ATATGTGTTA TTGTACCAA CTACACTGTT TTAATTGCTG TAAATTTTAA 300
TATGTCTTAG TATCTGGGTG TGGGAATCTT GANAGCATGG AGTTTGTGTN 350

```

(2) INFORMATION FOR SEQ ID NO: 7582:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 348
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08828

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7582:

```

GATCCTTGGG AGAGCTATCA CGGGAATCCA GGC GTTCACG GCCAGCAAGT GAGCCGCTCC 60
ATCAGGGGCC CGAAACTNTC AAGCCCC'TT NTGGAGAGNT GCCTGGCTGG ACCGTAGAGC 120
GCTGTGCTCT GAGCTTAGAA AGGGAGGTGG CGGATGGAGT GGGAAGTGAG AGACACTGAT 180

```

TTTNAAATAT CAAAATTTCC CTTCTGAAGT CGTTCAGATG TNTTCCTTAA AAAGAAGATG 240
 GAATTCTCTG TAGAGCGTCT CANTCCACTT TTAACCATGG NTGAGAGCAG ACTCCATTTA 300
 CCNTGAAATA GCAGCTTCTT TTGAGGGGAG AGTGACATGG AAGCAACN 348

(2) INFORMATION FOR SEQ ID NO: 7583:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 258
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08829

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7583:

GATCTGCAGG TTTGGGCATA TGCTTTCATC ATTAAATTAT CTGATAAAGT TACAAGTCAC 60
 AAAGGAGAAT GAGAACTTAA TGATTCTATT GGATTTAATA TATTAGCAAG AAANCATACT 120
 ATTTNCATAT GTNTAGCTTA GTAAGGCATT ANCATAAGTN CAANACCTAT GANACAGATG 180
 CNTATTTTCT CAACATACTG TGTCAGGTAT ACTGTTTTAT ANTNGGTTG TTTTAGCCTT 240
 ATTGCACACC NNCTCCCN 258

(2) INFORMATION FOR SEQ ID NO: 7584:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 308
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08830

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7584:

GATCCATTTT ATTACAAGTA AAATATTACA AAATATTTAC AGGAAAATAT TAAAAATAAC 60
 TCAAACACAA AAGGCAAGAT GAAATAAACT GTTTTTTTTT CTCCAGAAAT CTCTACTCCA 120
 GTGCCCACAG CACACAAGAG TCAAAACAAA TAAGCAACTA AGNTCCTTAC GGAAAAGGNA 180
 CAGNTTGTTT CTAAACCAGA AGAGGAGGTT GCCCAGAAGA AAAAGATATC CCGGAGGAAC 240
 CTGAGGANCC NAAACTTTTT GCCCCGGGGG TAATTCNGNC TTTNNATTAA TTTTNTTTAN 300
 NGGGNNNN 308

(2) INFORMATION FOR SEQ ID NO: 7585:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 36
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08831

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7585:

GATCTCTTAT CATAATAAAG AATCTTTGTC ATCAA 36

(2) INFORMATION FOR SEQ ID NO: 7586:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 227
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08832
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7586:
 GATCTAAGGA GGCCAGTGAA TTCAAACAG GATTAAAAAG AAAAAAACA GAGTTAGGTA 60
 TCAAATTAAG AATACTGAAA GCAAAGATAT AANTAGAACT TTAAAAGCAG CCAGAAAAAC 120
 AAACATATTA CATATAGGGC AGCAACANTA AGANTAACCG CTAACTTTGT ATTAANNGTA 180
 ATATAATTCA CAATACANTG TAACANCANT TTTNNGTGCT AACNGGN 227

(2) INFORMATION FOR SEQ ID NO: 7587:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 215
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08833
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7587:
 GATCTATTGA GAATGGAATT GTTTTCTTAA TTTCATTTTC AAATTGTTTG TTGCTAGCAT 60
 ATAGAAATAC AAGTGATTTT NTATATTGCT CTTGTATCCT GTGACTTTGC TGAGCTTATT 120
 TTAGTAGTTT TTTTTCCTG AATTCTTTAG GATTTTNTAC ATAAAAAATT CATATCATCT 180
 GTGAATAAAG ACAGTTTTAT TTCTNAATTT TTAAA 215

(2) INFORMATION FOR SEQ ID NO: 7588:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 43
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08834
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7588:
 GATCATATTT TAAATAAAG CATTTTTTGT AGAAAGTGCT AAA 43

(2) INFORMATION FOR SEQ ID NO: 7589:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 334
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08835
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7589:

GATCAGGATA ACCAGGATGA TAGCAGTGAC GATGGATTCC TCGCTGATGA CAACTGCAGT 60
 TCAGAAATAG GACAGTGGCA TNTAAAGCCT ACTATCTGTA AACAACCTTG TATCCTACTT 120
 ATGGNCTCAC TCCGAGGCC TTCTCGGTCA AATGTTGTCA AAATTTTAAG AGAGTATTTA 180
 GANGTGGAAT GGAAGTTAA AANAGGAAGC NNNAGANGTT TTTCCAAAGA GAAAAGAAAG 240
 CATAAGGNCA CTTACTCAAC AGANGCACCT TTAGGCGGNG GANCAGNACA TTGTGTCAAT 300
 AGTNTCTCNG GTTTGCCCTT TCTNTTACTT GTCN 334

(2) INFORMATION FOR SEQ ID NO: 7590:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 235
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08836

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7590:

GATCAAATTT AAAAATCAGT TTTAAAGTG GTTCCCGACT TCTTTCCTTT GGAAGAATTT 60
 GGNCTNATGC TCATAAGCAG TTCATGAGTG ACAAGTGTAG CAAAAGCCAG CCATATATTT 120
 CNAGANTCTA TATCCTCAGG AAATGGTCCT TTTTTTTCCT ATAANTCACC AACCAACTAT 180
 CTAANTGGNC ATTTGGGGGA NTTCCCTCCC AAATTTGATT TTNTNATTNG AAAAN 235

(2) INFORMATION FOR SEQ ID NO: 7591:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 172
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08837

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7591:

GATCCAGAGC ACAGATGGCA AGTTGTGTGG ATGATACTGA ATATNTTTAT TTTCTAAAG 60
 ATAAATNTCA CGACACGACA TTTCTCAGTT TTAATTTAGA TGTTTATNAC CATGTGTAA 120
 CAGAATCTTA AAACCCAAGG NATTTCTTCA GTAAACTAGA CTTTGATTCA AA 172

(2) INFORMATION FOR SEQ ID NO: 7592:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 335
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08838

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7592:

GATCAAGAGG AAGCATGACT TGCACAAGAT GGCAGAGGCC AACCGTGCCC TGGCCCACTA 60
 CCGCTGGTGG TAGAGTCTCC AGGAGGAGCC CAGGGCCCTC TGCCGCAAGA AACAGTGTGA 120
 GCTACTGCCA CGCTGAAAAC TACCTGTGGG TTAAGGATGT AGTTCCTTTG TAAGGGTGGG 180
 CAGGCCTCGT AAGAAAGATG TAGCAGCATA TTCACTATCC GTTAATCCTT CTTTCTTTGA 240
 GGCTGGAAC TGTCTCTCT GCCCCTATTT CCTTGTAAG AGGGAGCACA TTGACTTGGG 300

AATTTCTCTCC AGGAAACTCA GGGCTGTTTT CTCTN

335

(2) INFORMATION FOR SEQ ID NO: 7593:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 333
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08839

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7593:

```

GATCTGGGAC TTCTTTAGTA TCGAGTCTCC TTTGCACTCT TAAAAATTGT TGAGGACCCC 60
AGAGAGCTTT TGTTTTTATG GGTGTATCT ATCAATATTT ATCACATGAG AAATNATTTA 120
TTTATTTTAA AATAACTTTT TTATTGAGAA AGATAGCAGT GTTTTTTTTT AATCTTGCAA 180
ATTGTTTAAAT GTTTGATTTA ATGGAAGACA GCCAGATTGT CCTATCAGCA TTCAAAGTGC 240
TGCAGTAAGT TGTTTTGACT AATGTATATG AGGAAAACCT GACCTCACTG AGATTTTAAT 300
TGGAATGAG AGGAGTATTT TNCCAGCCTT TNN 333

```

(2) INFORMATION FOR SEQ ID NO: 7594:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 220
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08840

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7594:

```

GATCTCCTCC ATACGGAAC TTCTCATCTA CGTGGCCCTC CTGCGAGTCA CTCCATTTAT 60
CTTAAAGAAA TTGGACAGCA TATGAAGACA GGACATCACA TATGAATGCA CGATATGAAG 120
AGCCTGGTTA CAGTTTCGAC TCCTCTCTGC AAGTGAATAG GCCCAGAAAG GTGTAAGAGA 180
CTCTTTGAAT GGACATAAAA TTCTGCTTGT TAAGAACAAA 220

```

(2) INFORMATION FOR SEQ ID NO: 7595:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 326
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08841

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7595:

```

GATCTGTGCT GGCCACGTGC CCGNGTCTC AGCTCTGAAC CTGCTGTCCC TGCTGAGAAG 60
CTCTGAGGGC CCCTCCCTGG AGGACCTGTG AGGGTGGCTG GCCCTGGGC TGCCCTTCT 120
NATGGCTTCG TGCTGACTCC ATAAACATTC TCTGTTGAGG ATGTCCAGTC AGGGCTTGAC 180
AGGCCAGGN TCAGCCCGCC GTGGCTGGGA AGGTTCCCTG CAGTGCCAGT GCTGCAGCAG 240
GGAGAGCTGG GCAGAAGCAG CGAGGGGGCC CAGCTGGCGA GACTGTAGCC CCGTCCCACT 300
CCCACACTCA CTCTTGTTAG AGCCTN 326

```

(2) INFORMATION FOR SEQ ID NO: 7596:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 327
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08842

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7596:

```

GATCAGATGT TGGAACGTGC TATGCTGTAG CGTGTCTGGA AACAAAGTAC ACAAACCTGG 60
CTACGGTGAT GAGTTAGCTT CTGCTTACTA CCTGTNACAA CCCAAGTGGG TGACACTAGT 120
GAACCTTCTC CAGTCTGCAG GCTGGCATAG AAGGCTCTTA GATTATATTG GGCAGCTTGC 180
AATCTGCCGA AGCAGTGACT TGCATTTCCA CACTTGGCTT GAGCACTCAA CCCAGAAGGC 240
GAAGATAGCT TTTGGTTGTA GCGGCTTCC TGTATGGGAT ATCCCTCGGT AAGGGTAAAG 300
GAGCAGAGGC AAAGGAGAAA AGCAGTN                                     327

```

(2) INFORMATION FOR SEQ ID NO: 7597:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 278
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08843

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7597:

```

GATCTTTCCT CCCTCCCCTG CATGAGGCAG AGGCAAGCTG CCTGCCAACC CCCTCCCTCA 60
AGGAAATGGCC TTGCCCAGGA ATGCCACCA CACATACCCT CTNCTTTTTT NNTAGTCAAA 120
CTCTTGTTTA TTCCTTGNT TGCNTCCCTC CTTCCCTCCC TCTCAACCTT TACTTCTGAT 180
TTNNATTTCA TGGAATTTGG GATTGANGTT AAACATAAC AGTGCCGCCA ACACCAAGTN 240
TTGCAGGAAA AAAATACAAA GAAATTTANC ANANAANN                               278

```

(2) INFORMATION FOR SEQ ID NO: 7598:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 202
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08844

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7598:

```

GATCTTCATT ACCGTTNCAT GATTGGAAAT ANTAAAACA TTGTACAGTT TTAGTATAGA 60
GAAATNTAAT GGNTTTTTGT AACCAGTTTC TGTCTGCATG TAATTTGGAT TTCTCAAATA 120
CATTCATTAG TAATTNATCA GTAACATTAG TTTTATTTNN GTCCATCTCC TTATCTATAA 180
AANGGGGATA TNCTTAGGAT NN                                     202

```

(2) INFORMATION FOR SEQ ID NO: 7599:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 47

(B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08845
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7599:
 GATCCATAAT ATAGCATCAC ATCTCAATAA ATTTATTTGG AAGCAAA 47

(2) INFORMATION FOR SEQ ID NO: 7600:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 327
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08846
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7600:
 GATCTGCCCA CCTTGGCCTC CCAAAGTGCT GGGATTACAG GCATGAGCCA CTGTGCCTGG 60
 CCCCTTCCCTG TAAATTTTTN AAATGGAGAA TTGGGTGCNA GATGTGGTTT CCAGCCTGGT 120
 GCCTGGGGTG CTGAGCTANN NGAGTGGTGC AGTCCAGGAC ACCTTTGCTT TATCTCACTT 180
 ACACGGTCAC CTGGAGCCGG CTCAAGTGGC TAAAGCATCC TGGGGCCCAG AGCCAGGTGA 240
 TAGGTCCCTN TGGCCAACTG GACAGTTGAG GCCTGTGGTT ACCCGAAGCC CAGCTTGGGG 300
 CCCTGGTCCA GCCTNGCCTC CCAGGAN 327

(2) INFORMATION FOR SEQ ID NO: 7601:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 326
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08848
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7601:
 GATCTAGATG CTGGTATTGA GGTGGGAGAC AAGTACTGCC ACCNGAAACA ACAGTCTTGG 60
 TAAATTTAGC CGACGAGGGT AAACACATCC TAACAGGGAA GGTAAGTGT ACGTCCATCA 120
 GTACCACTAG AGGGCATCNC NGGTTTATAG TTCAATACAG TGAATATATC AGANTAATGG 180
 CCTTTAGTTT TCCTGAAAGA TTAANTTAGG CTTGCTAACT TGTTTAATGN GATANTCAAA 240
 CATATGATGT AATTTTAAAG GGTTTACATT TTTANAANTT TAATGGTTGC TACATAAAAN 300
 GGGNTTCAGT TAACTNATTT TGC GTN 326

(2) INFORMATION FOR SEQ ID NO: 7602:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 310
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08849

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7602:

GATCTCAGCA GGGAAACCATG GAAGCACCCA CCCCTTGCA TTTTGGCTTA CCTGTAGCGG 60
 AATGCAACAG AGAATTTTAT ATGCTAAGAT TTGTGGTTCC GTGGGAGAAT ATTTCAAACA 120
 GGTGGAAACC ATCAAATAA AAGAGAACCA GAAATCATT AAAGGTCACG TGAGGAGCTT 180
 CTGTNTTGTG CAACTTAAGC CTCACCAGT CTCCTATGCC CAGGTGCCCC GCACCCCAT 240
 CATCTGCATA TTCACCATCC TCAGGTCAGA TTCTATGATA CTGNNATAA AGGCATTCTG 300
 GAAAAATAAA 310

(2) INFORMATION FOR SEQ ID NO: 7603:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 287
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08850

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7603:

GATCCGGTCA GCAGCCCTG TGGCTAGAG AACACCAGCA CAAACGACAG CCTCAAGTCT 60
 CCTTCGAGCT TTATATCCAT TTGGGGATGA AGTCTACTTT NACAGCTAGC AAGGCGACAT 120
 GCAACTGTTG TTGAATGATG ACAGCAATTC AGGAAAGACT TAAATATGAA AGCAAATTGA 180
 NCACATCGGG TGTTTGTNAT CAGANNAGNG NTGNGATGTG ATAAGACTTG TTTATTGACT 240
 AGCCAATATG TCATTCACCT TCNGGTTTAT NTTGTGNANC CCCANN 287

(2) INFORMATION FOR SEQ ID NO: 7604:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 66
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08851

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7604:

GATCGAGTTT TGGTTCGGGT TAACTGTGTG CCTACTGAAC CTGGCAAATA AACATCACCC 60
 TGCAAA 66

(2) INFORMATION FOR SEQ ID NO: 7605:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 339
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08852

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7605:

GATCTGGAAT GTGAAGCGTT ATAGAAGATA ACTGGCCTCA TTTCTTCAA ATATCAAGTG 60
 TTGGGAAAGA AAAAAGGAAG TGGAATGGGT AACTCTTCTT GATTAAAAGT TATGTAATAA 120

CCAAATGCAA TGTGAAATAT TTTACTGGAC TCTATTTTGA AAAACCATCT GTAAAAGACT 180
 GAGGTGGGGG TGGGAGGCCA GCACGGTGGT GAGGCAGTTG AGAAAATTTG ANTGTGGATT 240
 AGATTTTGAN TGATATTGGA TAATTATTGG TAATTTTATG AGCTGTGAGA AGGGTGTGTGT 300
 AGTTTATAAA AGACTGTCTT AATTTGCATA CTTAAGNTN 339

(2) INFORMATION FOR SEQ ID NO: 7606:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 337
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08853

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7606:

GATCCTTTGT GAGCAAGTTC TATTTGTTCA TTGCTTGCCA GAGATGAACA CAGAATGTTC 60
 TGTTTCATTT TACAAGAACT ATCCTGAGTT TCTGTGGATG GAAACATTAC ATGTAATGCA 120
 GATATAGTGA ACACTGGAAA GATTTATTAA AGANTTATAT TTGTGTATAC TTTATAAATT 180
 AGTCCCTCAT TAGATTTTTT TTTTCTTAAG CATAAGACTG ANCTTAAATG TGTTAATTTT 240
 AGTAGAATCA GGCAC TGCTC GCAGAAGGAN CACAGATTGT NGAGATTAAC ATAAATNGTT 300
 CTTGTTCTAA TATATATNTN TNNCCATTTT TGTCGAN 337

(2) INFORMATION FOR SEQ ID NO: 7607:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 203
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08854

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7607:

GATCCGTGGA TTGAGGGTGC CTTTCCATTT ATTTTGGTCT TCTTTACTTT CTTTCAACCA 60
 AGTTTTGTAG TTTTCAGAGT ATAAATTTTA TACTTGTTTT GTTCAGCCTA TTAAGTTT 120
 ATTTTGGTG CTATTGTAAA TNAAATCTTC TTAATTTCAA TTTTCAGATTA TTCACCTAAA 180
 TATACAGAAA TACAGCTGAT AAA 203

(2) INFORMATION FOR SEQ ID NO: 7608:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 207
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08855

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7608:

GATCAAACT TTTTATAATA CAAAGACATT ATTATTTGNT TTTTTCCTG TCCCCTCCTG 60
 AATATACAAC GGAGCATTC AGATGCTAGA GTGACAGCCT CACTCAGACT CAGGGGATGC 120
 ATGCTTGCT GTACAGTACT CGTATGTTTT AAATTTGTTT TAACTCCTAA TATGTAAGTA 180
 TCAATAAATA TAATCACCTT AAGTAA 207

(2) INFORMATION FOR SEQ ID NO: 7609:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 249
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08856

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7609:

```

GATCTTCGTG GTGGAAAGCT AAATTTTAAA ACCACCCCAA TGGATGCAGA CAGTGATGTT 60
GCATTGGACA TTCTAATTAC AAATGTAGTC TGTGTTTNA GAACAAGATG TCATTTAANC 120
TTAAGGAAGA TTGCTTTGGA AGGNGCAAAT GTAATTNATA ANCGTGATGT TGGAAAAGTA 180
TTANTGAGGC TTAGAAAACC TAGANTTACA GCTACANTTN GGTCTCAGG AAANNTTATT 240
TGCNCTGGN                                     249

```

(2) INFORMATION FOR SEQ ID NO: 7610:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 319
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08857

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7610:

```

GATCTGTAGT ATTTTAATGT GCATCTACTT TAAATGAGTC ATCTTGGGGT TTTTATAATT 60
CCCTTATGTT CTCGCCCCCTC TACACTTGAA ATAACAAAAT GCCTTAATTT TATGGATTAG 120
NTCTCTTATA GGAGACAGGC AGCTATATGN AGCAANCCCA GTAAAGTTAT TTTTCAACTN 180
TCANAGTTGT AAAATATTTT ATAACAGTTT ACANCAACAG CTGNAGANCA ACATGCCACA 240
TTTTNTTTCG AGCATTTTCA AATANTTTGT TTTGTGGTGT NAGCACAGGN TAAANNTGGG 300
GNGCGTCGAT GTGAGGCGN                                     319

```

(2) INFORMATION FOR SEQ ID NO: 7611:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 208
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08858

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7611:

```

GATCTACAAA AAATTCCTGG AGCCATATAT ATACCCTCTG GTTTCCCCCT TCGTTAGTCG 60
TATATGGCCT ANGAAAGCAA TACAAGANTC CAATGATACA AACAANGGCA ANGTAACCTT 120
TAAGGGTGCA GACATGAATG GTTTACCAAC AAAAGGNCCA ACAGAAATCT GTGATAANNC 180
GNAAGACTAA NGAAATTTTC CNAAAGGN                                     208

```

(2) INFORMATION FOR SEQ ID NO: 7612:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 321
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08859
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7612:
 GATCTTCCCA CCTTCAGCCT TCCAAGTAGC TGGGACTACA GATGCACACC TCCAAACCTG 60
 GGTAGTTTTT NAAGTTTTTT TGTAGAGGTG GTCTAGCCAT GTTGCCTAGG CTCCCGAACT 120
 CCTGAGCTCA AGCAATCCTG CTTCAGCCTC CCAAAGTACT GGGATTACAG GCATCTNCTG 180
 TAGTATATAG GTCATGAGG GATATGGGATG TGGTACTTAT GAGACAGAAA TGCTTACAGG 240
 ATGTTTTTNT GTAACCATCC TGGTCANCTT AGCAGAAATG CTGCGCTGGG TATAATAAAG 300
 CTTTTCTACT NCTAGTCTAA A 321

(2) INFORMATION FOR SEQ ID NO: 7613:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 136
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08860
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7613:
 GATCCTTCCT AGGGGATGGG GGAAGCCCTG GCTGCAGGCA GCCTTCCAGG CAATATGNNG 60
 ATAGGAGGCC CACGGGCCCTG GCAGTGAGAG GTGTGGCCCC ACACCGATTT ATGATATTAA 120
 AATCTCAACT CCCAAA 136

(2) INFORMATION FOR SEQ ID NO: 7614:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 47
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08861
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7614:
 GATCCCGTCT CTACAAAAAA TAAAAAAA TTAGTCGTGG TGCCAAA 47

(2) INFORMATION FOR SEQ ID NO: 7615:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 36
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08862
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7615:
GATCACTTTT TCAATATTAA ATNTTATTTA CATAAA

36

(2) INFORMATION FOR SEQ ID NO: 7616:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 260
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08863

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7616:

```
GATCATCATG AAATNATAAG AGGGCTTAAG AATTTGTCCA TTTGCATTTCG GAAAAGAATG 60
ACCAGCAAAA GGTTTACTAA TACCTCTCCC TTTGGGGATT TAATGTCTGG TGCTGCCGCC 120
TGAGTTTCAA GAATTAAAGC TGCAAGAGGA CTCCAGGAGC AAAAGAAACA CAATATAGAG 180
GGTTGGAGTT GTTAGCAATT TCATTCAAAA TGCCAATGG AGAAGTCTGT TTTTAAATAC 240
ATTTTGTGTG TATTTTAAAT 260
```

(2) INFORMATION FOR SEQ ID NO: 7617:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 102
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08864

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7617:

```
GATCAACTTT AGTCACCAAC CCAAATGGAG GATTNTTGGC TTGTGGGNCC TTATATGCCT 60
ATAGNTGTGG ACATTTCAT TACACAATG GANTCTTNC TN 102
```

(2) INFORMATION FOR SEQ ID NO: 7618:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 228
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08865

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7618:

```
GATCAAGGGG CCTCTCAGAA CCATGTTCCC CAGCCAGGTG AGGACCATT TAACTGGGAC 60
CCAGGNCAAAA ACCATGTGGG TGCACAAAGC CAGGCACTGC CAAGTGGAAC ATGAGGTTAT 120
TTCCAAATCA TGGGAGCCAC CAGCAGGGAG AGGGCAGTAT GGAAAATCCC CTGGAGCCGG 180
TCAACTNTTT GCTCATGGCT AGTGAAATAA AGTTGTTTGA GTACTAAA 228
```

(2) INFORMATION FOR SEQ ID NO: 7619:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 113
- (B) TYPE: nucleic acid

(C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08866
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7619:
 GATCTCTTAC TCCCCCAGTT TGAATGGTAA ATTTGAATGG TAAATTCCCA TGAACATATA 60
 TGGAAATATC TTTATCCTAC TTTNTCCAAT AAAGGCTGTT CTTAGCTTTT AAA 113

(2) INFORMATION FOR SEQ ID NO: 7620:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 279
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08867
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7620:
 GATCACCTGN CAAATGTTTG AGGACGGAGC TGTGCAGTCA CATTATTGGG GATTCCACAG 60
 CTGGTGCTGC AGGCCTTGCG CCTCCAACCA GGACTTTNTT CTTAATGCTC TCGACACTTA 120
 GCTAAACACG ACTATATCCC GGCCCAGCAG GCCCCAGCGC CGTTAGTCTC CAGCTGACTC 180
 TGTGGGTTGG TCTTAAAGCA AATTCTGTTT TGTGGACTGC CTGGCAATTT TTNAGCTAAC 240
 TGTAATGATA AAAAGGGAGT NTTAATCTAT TCTGAATCN 279

(2) INFORMATION FOR SEQ ID NO: 7621:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 198
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08868
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7621:
 GATCAAGTTG TGGTGGATAA CGTGTTTCCA AATTGCATCT TGTTGCTGAA ACTTCCTGGA 60
 CTTGAGAAGT TACTTCATCA TGTGACAGAG GAAAAAGGTA ATCCAGAAAT AGACAACAAG 120
 AAATATTACA AGTNCAGCAA AGNGAAGACA TTAAAGTGGC TGGNAANNNN GGTTAATCAA 180
 NCTGTGGCAG CATTAANN 198

(2) INFORMATION FOR SEQ ID NO: 7622:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 184
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08869
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7622:

GATCCAGAAA GTAGCAATAT AGGACTTTAA GGGGTATGTA TTAGTGTAAG TAATATATGT 60
 GCAGTCTAGG CTAATCATNT TAATTAAGCA CAAATAAGCA TACTTTTTTN CTTTAAAAAT 120
 ATGCCCTCAA AATGGTGGGG GATAAANTGT AAGATATTCT TTAGCTGNNN TTATTTNNCC 180
 GNCN 184

(2) INFORMATION FOR SEQ ID NO: 7623:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 212
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08870

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7623:

GATCCTAAGT CTCTTACAAA AGCTTTGAAT ACTGTGAAAA TTTTTTACAT TCCATTTTCAT 60
 TTGTGTTGTT TTTTAACTG CATTTTACCA GATGTTTTGN TGNTATCGCT TATGTTAATA 120
 GTAATTCCTG TACGTGTTCA TTTTATTTTC ATGCTTTTTT AGCCATGTAT CAATATTCAC 180
 TTGACTAAAA TCACTCAATT AATCAATGNA AA 212

(2) INFORMATION FOR SEQ ID NO: 7624:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 373
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08871

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7624:

GATCGCAGAC CGCGCTGCCC ACGACGAGTC CCCGGGGAAC AACGTGGTTG GACATCAGCG 60
 TGCCGCCCCAC CACGGACGGA CAGAAGTCTC TTTAAGAAAA TAGTTTAAAC AATTNGNTAA 120
 AAAATTTTCC GTCTTATTTT ATTTCTGTAA CAGTTGATAT CTGGCTGTCC TTTTATAAT 180
 GCAGAGTGAG AACTTTCCTT ACCGTGTTTG ATAAATGTNG TCCAGGTTCT ATTGCCAAGA 240
 ATGTGTTGTC CAAAATGCCG TTTAGTTTTT AAAGATGGAA CTCCACCCTT TTGCTTGGTT 300
 TTANGTATGT ATGGAATGTT TATGGATAGG GACATAGTAG TAGCGGTGGT CAGACCATGG 360
 GAANTGGGTG GNN 373

(2) INFORMATION FOR SEQ ID NO: 7625:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 74
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08872

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7625:

GATCCTACAA GCATGTCTGC TGTAAGTCTA TGTATGTTTT CTGTAAAATC ACATACCTAT 60
 AAAATAAAAA GAAA 74

(2) INFORMATION FOR SEQ ID NO: 7626:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 53
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08873

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7626:

GATCGTGAAC ACTGCATTCC AGCCTGGGTG ACAGAGCCNG ACCCTGCCTC AAA

53

(2) INFORMATION FOR SEQ ID NO: 7627:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 379
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08874

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7627:

GATCTACCCA CCTTGGCCTC CCAAAGTGCT GGGATTACAG GCGTGAGCAC CGCGCCTGGC 60
 CCTCTGCAGT TGTTTAATAA GGCACAGAAT ACCTGTAGCA TAGGTCAGCC TTACGATGTC 120
 CATGAATTAC ATATTACAGAC GTTTTAGAGC CTGATACATT TTGGAANCGA AAAACAACTT 180
 CTACACCTAT TCTACAGTCC GCATTTAAAA CAATAAATTC CTCTATTAAA AACGTAAAGC 240
 CGGGTTTGCT TGC GTGCCAC AGGGGGTATA TCCAGGAAGG TTATTATGAA GCTGTCAAAT 300
 CAAGATGATG GNAATAAGGC AGTTTGAACG GACAGTCTTC CCACAGTCAG GCCATTTTTC 360
 CTGATTTGGT TTAGGATTN 379

(2) INFORMATION FOR SEQ ID NO: 7628:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 212
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08875

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7628:

GATCGGGCGC TGTGCAGTGT GGTCAGCATG GTGAAGAAAG TCATTTCTC GGTGGGCAGT 60
 ATTCCTCTTT ATCTCTCATT AACTGGAAA TGTTATTTCT GCTGTATCAT CCGTGCTCAA 120
 CGTTTTAGTC TGTCAGGCTC ACCTTCTCTC TGGAAAGAAT TTGCTTAACT TGACATTCCA 180
 TGTGCCGCTA ATAAAATATA TTTTGAAAGA AA 212

(2) INFORMATION FOR SEQ ID NO: 7629:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 350
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08876

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7629:

```

GATCAGAANT AATTACCATT CCCNGTGTTT TGCTGTAGGA CCTTCAGGTC TATGTTCTAA 60
GTGGGGNNTTA TGAAACTGGT AATAGAAAAT AATGGAGAGC AGTTAAAGAG TTAATATACA 120
TTATTAATAT GNGTGCTCTC TACAGGCACA CAAAGCCTGT AGACTCAACA AATTTACTCC 180
TGAAGTTTTC CAAATTTGCA AAATCTGCAA TTTNTGTGCC ACATAAAGCT NTCCAGAAAT 240
TGAAAANCNG TAAANCACCG GGTCTCANTT TNTTCCTGCA TTTCACTGAT ACCTTAANTT 300
ACATAGNTTA NCTTCTTTAN AGCACTACCT TTTTNGCTGT TGNTATTAAN 350

```

(2) INFORMATION FOR SEQ ID NO: 7630:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 76
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08877

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7630:

```

GATCTCACAA CTGCACTCCA GCCTGGTGAC AGAGCAAGAC TCCATCAAAA ATAAACAAAT 60
AAAACAAACA AACAAA 76

```

(2) INFORMATION FOR SEQ ID NO: 7631:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 185
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08878

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7631:

```

GATCAAAGTC TGCTTCATTG TCTTGTTCCC CATTTTAATG GCAATGTTAG GTATAATNTT 60
TGCTTTTATT AAGTATAATN TTGCTTTTGG TTGGTAGAGT TTTACGATTT TACATCAGAA 120
GTACCTGTTC AACTTAATTG CCACGTTTAA GCATCAATTA AAATATTTTC ATTGAACTCA 180
TGAAA 185

```

(2) INFORMATION FOR SEQ ID NO: 7632:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 149
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08879

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7632:

```

GATCTTTTATG GAATTAACT TGCAAATNAA ATGAAATATG TTGGGACTTT GGCATAATTT 60

```

GAATATAGCA TTGTGTGAGT TGTGATTGTN TCTTCCTAAT TGTGCTGTAA TAACCTGTGT 120
 ATGAGAATAA AATGATTTC ACCATCAA 149

(2) INFORMATION FOR SEQ ID NO: 7633:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 193
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08880

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7633:

GATCTCACTC CATGATTACT GTGTAAAATA TTTTTCGACT GTTGTGAAGT ATTTTAACT 60
 TTTTCTGTA CATAACTGTG TTCTCAGAGC TGAATGTTTA TATCTTTTGC TGTGCAAAAG 120
 AAACANNNA AATGTTGTTT AGTTGTATAT ACAGAAATGT GTATAAAACA TTTTGTATT 180
 TTTNAAAAGT AAA 193

(2) INFORMATION FOR SEQ ID NO: 7634:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 148
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08881

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7634:

GATCAAGAAT TTTGTAGAGT GGACAGTCAT TACATATGTT ATAACCTATC CTTTAAAAAC 60
 TATTTTAAAC TTTATCCTTT CAGCTTTACT TAGTGCGATG TTTTAGAAGC AGTCTTCAAA 120
 GAATAAAACA CTAACCATGC ATGTGAAA 148

(2) INFORMATION FOR SEQ ID NO: 7635:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 376
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08882

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7635:

GATCCATTTC TGTGTCCTNT AGCCTAGTAT GTCTGAACTT CCATTCTTGT TATATATTTA 60
 AACTTTCCCT CTATATTATA GGNTTNGTGG CNNCCACGGT CAGGTGTAGA GGAAGCTGCC 120
 CCTTGCAGAA CTGTACTGTA ATATTTTCT TTTATAAATA TTTTCACAGG ACTGATTGTA 180
 CACAGGGCTT GTAATAAAAT TTAAACACTG TGCTGTGAAA CAACTATGGG GAATCTCCAT 240
 TGAAGGCTAC TTCATGGGCA CCTGAAAGTG GAGTGTTATA GCTATGACTT TCTATTTCTT 300
 GTTTCCTAAG TAAATTAAAC CTAATTTTCA CCCTTTCATT CTGTTTCAGC CTCCTGTNTA 360
 AGGAAGTACC GTTTGN 376

(2) INFORMATION FOR SEQ ID NO: 7636:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 279
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08883
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7636:

```

GATCCCATTC ATTGTCCCCT TTGGGGTATT TCCAATACTT GAATGGCAGA TTGGAGTTTT 60
TCAGAGTATG TGTTTCATCT GCTAGTCTTT CTCTCCTTCA TAGCTTTTCT TTTCCTGGAC 120
TTGCTCCTTT TGAGTTGCTT TTGCGTTTCT CATGCCTAGG CAAGTGTAAT AGAAATTATG 180
TAGCTCCTTA TGTTGGCAAA GGAGCTCTAT ATAGTTTCAC TTTGTATACA AGTTAGGNCC 240
AGCTGTTGTT ACATGTAATA TNNTGGTTCA GAACTTGAN 279
  
```

(2) INFORMATION FOR SEQ ID NO: 7637:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 373
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08884
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7637:

```

GATCTCTGAT TGCATCTATG TGGATTCTTT TTGGAGGTTA TGTTGCTAAA GAAAAAGACA 60
TAGTATACCC TGGGAATTGCT GTATTTTNC AGAATGCCTT CATCTTTTTT GGAGGGCTGG 120
TTTTTAAGTT TGGCCGCACT GAAGACTTAT GGCAGTGAAC ACATCTGATT TCCCACAGCA 180
CAACAGCCCT GCATGGGTTT GTTTGTTTTT TTAGTGCTCA CTCCCAACCT TTTGTAATGC 240
CATTNCTAA ACTTATTTCT GAGTGTAGTC TCAGCTTAAA GTTGTGTAAT ACTAAAATCA 300
CGAGAACACC TAAACANCAN CCAAAAATCT ATTGTGGTAT GCACTTGATT AACTTATAAN 360
ATGTTAGGTG GTN 373
  
```

(2) INFORMATION FOR SEQ ID NO: 7638:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 53
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08885
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7638:

```

GATCACACCA CTGGCACTCC AGCCTGGGCG ACAGAGTGAG ACTCCGTCTC AAA 53
  
```

(2) INFORMATION FOR SEQ ID NO: 7639:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 363
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08886
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7639:
 GATCCGAACT GGACTCACAT CCTGTATGGT GGATGGACTG TATATTGAGG GTTCCATTCT 60
 TCGCGCAGTT TAGACATCTC TGTTTTGATT CTTTGTGTGT GTTTTTATTT TAAAAGGCAC 120
 AAACCTCTAGA TATTAGTTGA ATGTTGAGGC TTAACTTTT TCGGTGTCTT TCTACAACTG 180
 TGTTCCTGTGA CTCAATTGTG TCGTGTTAAT ATCAGTACAG ACTGTCTCCT CTACGTGACC 240
 GTATAATGTT TTTCTCTTCT TGTAGTCTCT ATGGCGTGTG TTTATGGTGT AATAAGGTTC 300
 TCACGGGTTC AATCTTTTGT GTTTAGGGNN NNCACGGTTC AGACCAAATG GTATATAATT 360
 TTN 363

(2) INFORMATION FOR SEQ ID NO: 7640:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 270
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08887
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7640:
 GATCTGGTTC TGAGGAGGAC ACACCTGGCA TCGGATGACC TTTATAAATT ATCTATGAAA 60
 ATGCCAAAAG CTCTCAAGCC AAAGAAGAAG AAAAATATTT CCCATGATAC TTTTGGTACA 120
 ACTTATGGAA GGATTCATAT GCAGAAGCAA GACCTAAGCA AACTACAAAC CAGGAAAATG 180
 AAGGGGTTGA AGAAGCGACC TGCAGAAAGG ATAACAGANG ACCACGNGGA AAAAGTCAAA 240
 AAGAATTAAA AAAAATTGAT GGAACCTAAA 270

(2) INFORMATION FOR SEQ ID NO: 7641:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 336
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08888
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7641:
 GATCTCTGAA AAGACGTTAT CACCTTAAAG CTCAAATTCT TTGGGATGGT TTAACTTAA 60
 GTCCATTAAC AATTCAGGTT TCTAACGAGA CCCATCCTAA AATTCTGTTT CTAGATTTTA 120
 AATGTCAAGT TCCCAAGTTC CCCCTGCTGG TTCTAATATT AACAGAAGT CAGTCTTCTG 180
 CTAGCCAATA GCATTTACCT GATGGCAGCT AGTTATGCAA GCTTCAGGAG AATTTGAACA 240
 ATAACAAGAA TAGGGTAAGC TGGGNTAGAA AGGCCACCTC TTCACTCTCT ATAGANTATA 300
 GTAACCTTTA TGAAACGGGG CCNTNTAGTT TGGGTN 336

(2) INFORMATION FOR SEQ ID NO: 7642:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 331
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08889

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7642:

```

GATCCATTTC AGATACTTGT GGCAGCAAAC AAAGCAGTTC ACCTCTACAA ACTGGGAAAA 60
ATGAAGACAA GAACTCTATC TACTGAAATN ATTTTCANCC TTTCCCCAAA TAACAATATT 120
TCAGAGGCTT TGAAAAAATT TGGTATCTCA GCAAATGACA CTTCAATTCT AATTGTTTAC 180
ATTGAAGAGG GAGAAAAACA AATAANTCAA GANTACCTAA TATCTCAAGT AGAAGGTCAT 240
CAGGTTTCTC TGAAAANTCT TCCTGAAATA ATGATTATTA CAGANGTCAA ANAGGTATAT 300
AANCTCTCTT CACAGGNGGN ANGTATCGGA N 331

```

(2) INFORMATION FOR SEQ ID NO: 7643:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 327
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08890

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7643:

```

GATCCACTGT CCGGCAGAGG AAAAATGCCA GCTGTGGGAC AAGGAGTGCA GGCCGCACAA 60
CCTCGGCAGG CACCGGGGGG ATGTGGCGAT TCTACACAGA AGATTCACCT GGGCTCAAAG 120
TTGGCCCTGT TCCAGTATTG GTTATGAGTC TTCTGTTTCAT CGCTTCTGTA TTTATGTTGC 180
ACATTTGGGG CAAGTACACT CGTTCGTAGA TTCAGTTACA TCCATCTGTC ATCTGAAGAA 240
GGAGGAAAAA ACCCAACATT TCTTGACCA AAAGTATAGT GACTATCTGT TCATGAGAGA 300
AATTTTCTGT NAGCTTGCTG TTTTGAN 327

```

(2) INFORMATION FOR SEQ ID NO: 7644:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 287
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08891

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7644:

```

GATCAAGATG AAGTTCAGCT AGAAGTCATA CCACCCTCAG GAATCAGCTA AGTAATTATN 60
ACTTGATTCT TTTAGCAAAT CAATGCACGT NATCCTACTT AATCCTTAAA TAAGTTTAGA 120
TTTAACTAAC CCAAAGTCCA GGAGGATGTT CTTACAAAAN TAGCTATATC ANGGGCTGGC 180
ACCTAGACAT TAANCTGTAA TTNGANAATA AGCAACATGT TGCATAACTN GTTGGGAATAA 240
TTCCTTGTCN TGTTTAACAC TTGTCATAAN TTAGCAGNGT AANNNTN 287

```

(2) INFORMATION FOR SEQ ID NO: 7645:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 327
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08892

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7645:

```
GATCTACCCA ATTAGAAATG CAACTTGAGA AACCCAAACC TGTAACCA GTGACGTTTT 60
CCACAGGCAT CAAAATGGGT CAACATATTT NACTGGCACC TATTCACAAG CTTGAAGAAG 120
CTCTGTATGA ATACCAGCCA CTGCAGATAG AGACATATGG ACCACATGTN CCTGAGCTTG 180
AGATGCTAGG AAGACTTGGG TATTTAANCC ATGTCAGAGC TGCCTNACCA CAGGACCTTG 240
CTGGAGGCTA TACTTCTNCT CTTGCTTGTC ACAGNGCACT ACAGGATGCA TTCNGTGGGC 300
TTTTCTGGCA GCCCAGTTAA CCATTTN 327
```

(2) INFORMATION FOR SEQ ID NO: 7646:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 329
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08893

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7646:

```
GATCTGGCTG CTCATGAAGA CAAAGTTCTG AGTGTAGACT GGACAGACAC AGGGCTACTT 60
CTGAGTGGAG GAGCAGACAA TAAATTGTAT TCCTACAGAT ATTCACCTAC CACTTCCCAT 120
GTTGGGGCAT GAAAGTNAAC AATAATTTGA CTATAGAGAT TATTTCTGTA AATGAAATTG 180
GTAGAGAAC ATGAAATTAC ATAGATGCAG ATGCAGAAAG CAGCCTTTTG AAGTTTATAT 240
AATGTTTTCA CCCTTCATAA CAGCTAACGT ATCACTGGGG CTTATTTTGT ATTTTATAAT 300
AAGNTAGGGT TGTGTTTTNT NAAATNCGN 329
```

(2) INFORMATION FOR SEQ ID NO: 7647:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 93
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08894

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7647:

```
GATCTTCAAG TGAACATCTC TTGCCATCAC CTAGCTGCCT GCACCTGCCC TTCAGGGAGA 60
TGGGGGTCAT TAAAGGAAAT CTGGGACAAC AAA 93
```

(2) INFORMATION FOR SEQ ID NO: 7648:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 283
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08895

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7648:

GATCTGCATG CATTGCTTGC ATTTTNTTGG TATCTGAATG TTGGTTCCTT GTTCCAGGAA 60
 TTCAACATTA NTTTCQAAAA GTATCATGGG ACTTGTGACA ATACANGTCA TGAATCTATG 120
 TATAAAATTT ATCGGCCTTT CTCATTTACC TGCTCTAGTA TTATTGTATT GTGTGTGCGT 180
 GCGTGTGTGA TGTCAGGCTG CCACGTAAAA CTTCAGAGGA AAATCTTAAA NGCAGGCCAT 240
 CCTTTTNGC ATGCTCTATT CTAAGTAGGA ATGTTCAATG TAN 283

(2) INFORMATION FOR SEQ ID NO: 7649:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 276
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08896

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7649:

GATCACCTGT AGGTCAATAG TTCGAGACCA GCCTGGCCAA CAAGGTGAAN CCCATCTNTA 60
 CTAAAAATAC AAAAAATTAG CCAGGTGTGG TGGTGTGCAC CTGTAGTCCC AGCTATTTGG 120
 GAGGCTGAGG TGGGAGAATC ACTTGAACCT GGGAGGCGGA GGTTGCAGTG AGCTGAAATC 180
 GCGTACCACA CTCCAGCCTG GGTGACAGAG CGAGACTGTG TTTCAAAGAA AAAAANAACC 240
 AGGCAGCCTT TTGCTTGGTT GGAATCTGAT TTTCTN 276

(2) INFORMATION FOR SEQ ID NO: 7650:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 182
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08897

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7650:

GATCTAAATA TTCAGGTTTT AAGCCTGCTG CAAACTTTTA AAATATTATG ATAGNTTCTG 60
 TACTACATGT GGGAAACAAG CAAGAACTAA ATAATCAAAT GTTGTCAACC AAAAGTAATA 120
 GTTGGGTATT GGAGATTTTT TTAAATGTT TTTATGTTAT TNGCTATTTG GAGTTAAATA 180
 AA 182

(2) INFORMATION FOR SEQ ID NO: 7651:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 93
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08898

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7651:

GATCTNAGAA AACGTTTAAT ATCAGATTTN TTTATTTTTN CCAACACAAC TGAATCAGTT 60
 TTCTTAAATA AAAGTTTATT GTCTACTGTT AAA 93

(2) INFORMATION FOR SEQ ID NO: 7652:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 275
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08899

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7652:

```
GATCTAAAGT TAGTTGCCTT TGCCTGTAAA ACATGTGATT TGCAAATTAT TATTTTNNTT 60
TTTTTTAACA AATGGAAGTA AATTGTGTTT ACGTAAATCT TAATTTTCAA CCTTTCTGGA 120
TACCTTAATT GTAACGTGCA GTTTGCACTG GTCGGTATAT GGAAACACAT TGCTCTACCC 180
TGCTACTTAG TTGNTTTTAA AGTGAATTTN CAGTGATGNG AAATTTGTGA AANNTATATT 240
GTATTTCTTT TGATGTTTCA AAAGGTTGCC TATGN 275
```

(2) INFORMATION FOR SEQ ID NO: 7653:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 279
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08900

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7653:

```
GATCTTTAGG TGTTGAACTG GGAATATGCT CTGCAACACC CAGGATTAGG ATAGAGATGG 60
ATTTCATTTT ATATGGGCTA GCATATTATT ATTAAAGACC ATTTTCAGGAG TGGGACTGTG 120
AAAGGAGGTG CTCTGTTATC TGGTCCAAGA GCTCCTCTGG GAATTAATCC TGGCTGGTTC 180
TGATGAGCTG GCAAGGNGCA GNGGATTGCA GTCTTTAAGT AGAAAATTNG AACCCCATCC 240
ATATAACACG TGNACGTGCA TTAAATAGCT TGAATTGTN 279
```

(2) INFORMATION FOR SEQ ID NO: 7654:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 264
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08901

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7654:

```
GATCAAGACC AGAAAGAAAT TATTGATACC AATGGAGCTG GAGATGCATT TTTTGGAGGT 60
TTTCTGTCTC AACTGGTCTC TGACAAGCCT CTGNCTGAAT GTNTCCGTGC TGGCCACTAT 120
GCAGCAAGCA TCATAATTAG ACGGACTGGC TGCACCTTTC CTGAGAAGCC AGACTTCCAC 180
TGATGGAAGA GCTGAAAACA CAAGCCCAGG AGTGCAGACA CTGCCCTAAT TGCTTCCTGA 240
GAATTCCCAT ATTAATAAAG ANGN 264
```

(2) INFORMATION FOR SEQ ID NO: 7655:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 61
 (B) TYPE: nucleic acid

(C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08902
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7655:
 GATCTTTTAG GAAAAAAAT AAATATTTTT AACATTAAAG CAGTCACTTT GGTTTATCAA 60
 A 61

(2) INFORMATION FOR SEQ ID NO: 7656:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 66
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08903
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7656:
 GATCTGTTTG CTTAGCTGTC AACAAAAAGA AAACCTGAAG GAGCATTTGG AAGTCAATTT 60
 GAGGTN 66

(2) INFORMATION FOR SEQ ID NO: 7657:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 252
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08904
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7657:
 GATCTNACTA AGCTTTCTTA GGAAGGGAAA GCATCTGGCA AGGAGTAAAA TGTCTGTTTC 60
 CAACAATTGT CCCTGTTCCC ACTACTTTTT AAAAATGTCC TTAGTAAAAA GTGTATATGA 120
 GGCAAGATTA TATTGAAAAA NTGAATATAA GAAAAAATA TTATGTTAGA GAGNAACGTA 180
 TTCAGCATTG TTNTCAAAAT CACAACTGT TAGGNGACTC TGACATCAGG TTTGTTCTCC 240
 ATATGCAGCA AN 252

(2) INFORMATION FOR SEQ ID NO: 7658:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 153
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08905
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7658:
 GATCTACATG GATGTTCTGT TCTCTGAAGT GTCTGGATGA ACCGGTCAAC GGCATCATC 60
 ATACCTTAGT TTTTAAATCT GCATTGTGGT CATAATCTGT TATTTAATTA ATTTCTCGTA 120

TTTTTAATAA AAACCTTGCC TATATATTTT AAA

153

(2) INFORMATION FOR SEQ ID NO: 7659:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 23
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08906

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7659:

GATCCCAAAA GTAGCAAGAG AAA

23

(2) INFORMATION FOR SEQ ID NO: 7660:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 280
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08908

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7660:

GATCAATTGC AGAATGATAC AGATAGTACA ATGACTTTTT TGTAATTTG AATTAAAAGT 60
 TTCCTCATAA AACTCAGTAC TATCTATTGG TAATGGATGC ATATATGTAT GTACATGTTT 120
 TTNAACGGA TTGGAAGGAT ACAGACCAAA CTCTTGATAG TGGTCACCTG TGAAGAGTGG 180
 AGAAGGGAAA ATNATGAGTG TGGGAGGTGG GATGGGTATT GGTTAANGGG GACTTCAGCT 240
 TTTTATATAA ACATCCACTT CTCTTTCAAA AAGNCTTCAN 280

(2) INFORMATION FOR SEQ ID NO: 7661:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 137
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08909

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7661:

GATCATTTTA AAAAAGTGAA TCTATATNAT NTTTAACTTC AGAAGGCATC ATTTATAAGA 60
 CAGTATGGCA GTTAATTATA AAATNATTTT GATGAATTAT GATACAATCT ACATAATAAA 120
 GAATNCTTTT GATTAAA 137

(2) INFORMATION FOR SEQ ID NO: 7662:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 305
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08910

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7662:

```
GATCCTAAAA CTGTCTCTCA CATTATATAG TAGATGTTTG TTTATAATGT TTACAAAACA 60
TTTTGGTGAA TTTCCTCAAT GTTTTATAAA TGTACATTTT TTAAGTCCTT AAGCTGACTC 120
TTAGCCATCA TGTAAGCTTAA GGAGTCTGAA ATCTGCCATT AAAACTGCAC CTTTAAGCCA 180
GGTGTGGTAG CATGTGCCTA TAGTCCCAGC TACTTGGGAG GTGGAGGTGG GAGGATTATA 240
AATAGAGACT TTCCTTAAGA CTTTAAAAAT GTATTGNNAA ACTATTTTTT ATTAAATACT 300
TTGTN 305
```

(2) INFORMATION FOR SEQ ID NO: 7663:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 103
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08912

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7663:

```
GATCCTAACC TTGAAGTATG CCTTGAACTT ATTAACATGG CCATTATAAG AATAAAATAT 60
GTAGTTGTGT CTTAATGGAA TTAATAAATG TCATTTCACT AAA 103
```

(2) INFORMATION FOR SEQ ID NO: 7664:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 211
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08913

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7664:

```
GATCAAGGAA TAAAGAATCA TTAAAGAATG GGGTGTGGG GGTTCCTTA ATTATCAGTG 60
ACACATTAAT TTTTTCTT AGAGCTTCAT ACAATAACA CATTGCAGAA AGTTTTAGAA 120
AGTTTTGCAG GACCTTAAAT TTTCTGCCCT GACACTTTTC GTCATGTTTC CTGTATTCCN 180
GTTTATTGTA GCGCATGCTT TTCAGGTAGT N 211
```

(2) INFORMATION FOR SEQ ID NO: 7665:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 71
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08914

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7665:

```
GATCTTAAAT TTTGTGATAT GGAGCCCTGT AATNTTTTTC TTATATAAAA ATGGGTATCT 60
ATATTCATAA A 71
```


(2) INFORMATION FOR SEQ ID NO: 7666:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 344
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08915

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7666:

```

GATCCCAGCT CATGGCACAG CCGTTTGTAT CCTCGGAAGA ACGGAAGGAA CGATGGGAAC 60
AGGGCCAGGC TGATTATATG GGAGCAGATT CCTTTGACAA CATCAAGAGG AACTTTGACA 120
CTTACCTCCA GTAGAAACAC TGCATTTTTC TGTGAACACA TCCACTTCAC AAGCCTTGTT 180
TCTGATACTT AGTATCTAGA GCTGGGTTGA GAAAAGTCTG TTACAGTTGC TAGAGGTTTT 240
CATTAAANCT TATCAGGNGG GCGGCTTTTT TAGGATAAGA GGTGAGAACT GGGCAAAAGT 300
TGTGAAGCAG CAATTCTGTT ATATGGNCAG TGTTCTGCTT TTTN 344

```

(2) INFORMATION FOR SEQ ID NO: 7667:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 200
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08916

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7667:

```

GATCAGCACT GCTGCACTCC AGCCTGGGTG ACAGNGCGAG ACTCCATCTA AAAAAACAAA 60
AAGCAAAAAA ACCACAAAT ACCTCATGGA GATGAACTGT AATAATTGCT TAAAGTTCCA 120
TTTAATTATG TTAAGCTTAA TCTAGCAAAA ACATAGATGT ACTTAAAAAT AAATCATGGA 180
TAATGATTTT TTAACCTAAA 200

```

(2) INFORMATION FOR SEQ ID NO: 7668:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 277
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08917

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7668:

```

GATCTCATT TCAAGTNTGA GTCTGACCAA CCATGGAAAA TATTGACAT GAATTAATGT 60
AGAGAACTAT AAAGCATTTA TGACAGCTCC AAGAAAAGTC ATCTACTCTA TGCAGGAGAT 120
ATGTTTAGAG ACCTCTCAGA AAAACTTGCC TGGTTTGAGG GTACACAGTA CCATTTTAAT 180
CTTCTGAAAA TATCTGTATT CCTGCTCTGG GGNTGCTGTC ACTGTCAATC TGCTATATTT 240
TTCATATCC TATTAAATA TTACTGTCTC CTTTAAA 277

```

(2) INFORMATION FOR SEQ ID NO: 7669:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 163
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08919
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7669:
 GATCTTCTAC ATTTATATTT TTAATCTTCT GTTAAATACA CTTTCCGATA TTGCCTTGCC 60
 TTTTGAGCTC TTGCTACAGT CGCCTTTGCT ACTGCTTTAA GAGAATTTAC AGGTATTGAT 120
 AAAGAACAAG ACTGTTTTAT TAAAGNTTT ATTCAACTTG AAA 163

(2) INFORMATION FOR SEQ ID NO: 7670:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 111
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08920
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7670:
 GATCCAAATC TGGTTCAAAC ATTCAAAAC TCAAAGATAA TTCATCTTTC GCTAATGCTT 60
 GTGTTTCTGT NGTTCCTTG AAAAAAATA AAAACCCGAC CCAGCAGCAA A 111

(2) INFORMATION FOR SEQ ID NO: 7671:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 155
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08921
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7671:
 GATCTGTCAC TGTTCCCGT CACCCTCAGA TGGGACCGTC TAGTTGTAGG AAAACAAGCT 60
 CAGGGCTCCC ACTGATTCTA CATTTTGGTG AGTTGTATAA TTGTTATGTA TTGCAATGTA 120
 ATAATAATAG AAATAAAGTG TACGATAAAT GCAA 155

(2) INFORMATION FOR SEQ ID NO: 7672:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 239
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08922
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7672:
 GATCTGGAGA GGTGTTTGT GAAAGTGGAG AAGATTCACG AAAAGGTCTA AATGAATTGC 60

GTGTGCAGGG CGCGGATTTA AAGTCCAATT TCTCATGACC AAAAAATGTG TGGTTTTTTC 120
 CCATGTGTCC CCTACCCCCC AATTTCTTGT CCCCTCTTAA AGAGCAGTTG TCACCACCTG 180
 AACACCAAGG CATTGTATTT TCATGCCCAG TTAACCTATT TACAATATTT AAGTTCAAA 239

(2) INFORMATION FOR SEQ ID NO: 7673:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 327
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08923

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7673:

GATCCTTTCA TTAATCAGAA CAGCAGCTTA TNAACTGCTT CATTTTCCAA AAGTGTTTCC 60
 CAAAAATCAG AAACCTAAAC ACCCAACAAC AGGAATTATT GCCATCACAT TGGCGTTTTA 120
 CATATGTCAC GAAGTTCACC TAGCTGGTTT TAAATACAAC TTTTCTGANC TCAAGAGTCC 180
 TTTGCACTAC TATGGGAATG CCACCATGTC TTTGATGANT AAGAACGCGT ATCACAATGT 240
 GACTGCAGAG CAGCTCTTTT TGAAGGACAT TATAGAAAAA ANACCTCGTA ATCAACTTGA 300
 CTCANGATTG ACTCTACAGA CTCGGAN 327

(2) INFORMATION FOR SEQ ID NO: 7674:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 377
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08924

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7674:

GATCTCCCN T AATTGGGAAT GAANGATTTT ACAGACTAGA GTCTCCGATG CTGGTCATGA 60
 TGTCAAACT AAGTTCTGAC TCATTTAGGG AACTGGATAC TTGGGTCTCC AGAAGGGCCA 120
 ATGGGAGGGC CATAATTCTG TTTATTTTCA AATTGTCTTG TTTTCACCTT GTTAGAATGA 180
 NCTNTGGAAG CCCAGCCAGG GACAATGCAC CTTACAGAG ATTCTGCACT AATCTGAGTG 240
 AAGGTCTAAG GTTTGGAATC TCCCCCTCAT GGAGAGAAGC TTTGTATGGC TGTCATGCTT 300
 AGACAGTGAT TCCTGCAACT TGACCTTCAG GCTGGGAGAG GTNGAGAGCC ATGCCTGTTT 360
 CTCCTTNCTT TGCTATN 377

(2) INFORMATION FOR SEQ ID NO: 7675:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 350
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08925

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7675:

GATCTGCTTC CCGCAAGACT CACAGCTGTT GGCAGGAGAC CTCAGTTTGT TGCCACATGT 60
 TCCCCTCCAG AGGGCCTCTC ACAACATGGC AGTTATTTGT CCCCAGAGCA AGCAACACCG 120

GAGGGCAAGG AAGAAGCCAT GATGTTTTTT GTAACCTAGC CTCTGAAAGT GTCATACCAA 180
 TTCTGTATTT TGTGGGTCAC ACAGACCANG TCAACTACAA CGTGGGAGAC TCCTACACAA 240
 GGCATGAATT CTAGGAGGTG GGCATTTTAA AGTGTCTATCT GGAAGGAGGC TGTCACAACC 300
 TGAAGTTAA AAGCATTGAT ATTCTGAAAT ACAGCGTGTA TTACCATGGN 350

(2) INFORMATION FOR SEQ ID NO: 7676:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 335
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08926

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7676:

GATCTAGAGG AGGATTTGCA GGAAGAGCTC GTGGAAGAGG TGGTGGCCCC AGTCAAAACT 60
 GGAACCAGGG ATATAGTAAC TATTGGAATC AAGGCTATGG CAACTATGGA TATAACAGCC 120
 AAGGTTACGG TGGTTATGGA GGATATGACT ACACTGGTTA CAACAACCTAC TATGGATATG 180
 GTGATTATAG CAACCAGCAG AGTGGTTATG GGAAGGTATC CAGGCGAGGT GGTTCATCAA 240
 ATAGCTACAA ACCATACTAA NTTATTCCAT TTGCAACTTA TCCCCAACAG GTGGTGAAGC 300
 AGTATTTTCC AATTTGAAGA TTCATTTGAG GGNAN 335

(2) INFORMATION FOR SEQ ID NO: 7677:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 295
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08927

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7677:

GATCCAAATT TGAAGCTCCA AGGATAGGAA AAAGCTTACT TGTGCCTGTC CTAGACAAGT 60
 ACTAGAGTTT ATATTGAAAT CAAACTTCT AAAAATAAAA ATCAGTAAGA TTAATTTTAC 120
 TCATTTTCT AACACGAGTC AGTATGCTTG ANGTTTTCT TGTATTTGAT GTCATGTAAA 180
 TTTACTGTAA AAAATAAGAA AANNTTTTAA AATGCTTTAT TGATTAANTT TAGGGTTGCT 240
 TTTCAGTATA CTCAGTAACT CCGAAGTCAG TGTTAACAGT ACTGAGCTTA CATAN 295

(2) INFORMATION FOR SEQ ID NO: 7678:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 136
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08928

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7678:

GATCTTTTGT TAACTTTTAA ATGGCCTGAG TCCATAGAAA CTGCATCCTG AGAGGTTGCT 60
 CGGCTAGAAA GCGGAAAACC GCTTCACATG AGTGTCTCTAC TTTGTAATGA AAATAAACAC 120
 TATTAATACA GGCAAA 136

(2) INFORMATION FOR SEQ ID NO: 7679:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 310
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08929

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7679:

```

GATCTGGGAA CGGAAGATGA ATGAATGGAA GATGAATGGT TTCTCTCCCA GTTTTCTCTG 60
AGGCAAACAT AATTATACCT NCTCCTTTGT TCTGGGAGGT TTTTCTCTTC TCATCTCCCC 120
TCCATTACAC AAAACAGAGT TGGGTCTATA TTTNACCCGG CTGGCTCTTG GAACTGCAGG 180
GAATCCTGGC TGTTTTTCATT TTTAAAAAAT TATGAGATTA NCTACCAAAC TTGAGATGTA 240
AGTTGTGGGT TAGCTCTCGG ATTCTGCTAG ATAACCTGGA ACAAAGCATT AACTTCTTTG 300
AGAGCTTCCN                                     310

```

(2) INFORMATION FOR SEQ ID NO: 7680:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 177
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08930

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7680:

```

GATCTGCCAT GTAGGAATGA GACAAATACA GTTTGCTTAT GAAAGGAAAG TGGCATACTT 60
TTAAATTGGT CTACACAGAA AAGTAAAAGT AACTATTCA TTAAATAAG ATTCATTATC 120
TAATAAATAT TGAGGGAATA TTTTTCCTAA ATAAAAATTT TTCTGACTGC TAACAAA 177

```

(2) INFORMATION FOR SEQ ID NO: 7681:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 84
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08931

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7681:

```

GATCTAAGCT TTCTTTAATA TAAAAAAAT NATACTTCTC TGAAGTGT T AATAGAGCAA 60
TAATTAAATA CATCTTCTGA TAAA                                     84

```

(2) INFORMATION FOR SEQ ID NO: 7682:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 285
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08932

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7682:

GATCTGTTGG GAAAGATAAG AAAGCTATTC AGGCATCAAT TAGACGTAAT AAGGAAACCA 60
 ACACCGTTTT GGCCAGATTG AATAGCGAAT TGCAGCAACA ATTAAAGGAT GTTCTTGAGG 120
 AGAGAATTC CCTGGAAGTT CAACTGGAAC AACTTCGACC ATTCTNTCAC CTATAAGCCA 180
 ATTGCCGTTA ACTGTGAACA TACTTGTTTT TAAGTGTTT TGGGTTCAAA GCCAATTTGG 240
 AGACCTAGAC ATTCAGCTCA CTGCTTAAC CANTATTA TTTN 285

(2) INFORMATION FOR SEQ ID NO: 7683:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 313
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08933

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7683:

GATCTCAATT CTGTTTCCTC TCACATGATT ACTTGATAGC TAAGCATCTG ATTGGTTTAC 60
 TGCTTTACCA CTGAGCTGAA ATGCCGTGTT TTCCATTTAT TAAATCACA CATGGCTCCT 120
 GTTTTNTCA CTCAGCACTT TTTCTCCATA TTCTTCAAGA CGATTGTGAG TATGGTACGT 180
 AACAGGAATT ACATCTGGTA AGTTGTATAG TTTTGTGTAG GAACTCTATA TTCATAGCAT 240
 ATTTGTGGAA ATGATACCTA TGGAGGTTTC TCACACTGGT GTGTCATTAT ACATTAATTG 300
 TACAATATGC ATN 313

(2) INFORMATION FOR SEQ ID NO: 7684:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 110
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08934

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7684:

GATCAGTAAT GGCAAGAGCC TTNATTCTC GAATGTTTAA AGCCTAGGAG TTCTACAAA 60
 TTGGNTTCTT TCTACAAGAN TCCCAAAATG GAATGCCTAA AGAGGTNTNN 110

(2) INFORMATION FOR SEQ ID NO: 7685:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 132
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08935

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7685:

GATCCCAAAA ACCGGGCAGC CCAGGAAGGA ACTGGGGAAG GTGGTCATTC AGGGGAAGAA 60
 CCAGGATGCA GGGCTGGCTC AGGGTCTGCG CAAGATGTTT GGCTGATTAA AAGTTAAACC 120
 TTAAAAGAGA AA 132

(2) INFORMATION FOR SEQ ID NO: 7686:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 85
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08936

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7686:

GATCCCATGC CTGAAATNTG GAAGCATATG TACAAAAATC ATTTTACGT TTTATTTTAA 60
 ATAAATCATT GTGTTTGACC GTAAA 85

(2) INFORMATION FOR SEQ ID NO: 7687:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 333
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08937

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7687:

GATCCTAGTC ATGACTATAC ATTGTGACAT GGTCATTACA TATGGATTAG ACCAACTGGA 60
 GAATTGCCAG ACTTGTGGTA CCGATTATAT CATCTCAGTC TTGAATTTAC TCACGCTGAT 120
 TGTTGAACAG ATAAATACGA AACTGCCATC ATCATTTGTA GAAAAACTGT TTATACCATC 180
 ATCTAAACTA CTATTCTTGC GTTATCATAA AGAAAAAGAG GTTGTGCTG TAGCCCATGC 240
 TGTTTATCAA GCAATGCTCA GCTTGANGAA TATTCTGTG TTGGAGACTG CCTATAAGTT 300
 AATATTGGGN GANATGACTT GTGCCCTAAA CAN 333

(2) INFORMATION FOR SEQ ID NO: 7688:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 333
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08938

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7688:

GATCTGATTC GCTCCATCAA TGACCCGGAG CATCCACTGA CGCTAGAGGA GTTGAACGTA 60
 GTAGAGCAGG TGCGGGTTCA GGTTAGCGAC CCCGAGAGTA CAGTGGCTGT GGCTTTTACA 120
 CCAACCATTC CGCACTGCAG CATGGCCACC CTTATTGGTC TGTCCATCAA GGTCAAGCTT 180
 CTGCGCTCCC TTCCTCAGCG TTTCAAGATG GACGTGCACA TTAATCCGGG GACCCATGCC 240
 TCAGAGCATG CAGTGAACAA GCAACTTGCA GATAAGGAGC GGGTGGCAGC TGCCCTGGAG 300
 AACACCCACC TCTTGAGGT TGTGAATCAG NTN 333

(2) INFORMATION FOR SEQ ID NO: 7689:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 110
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08939

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7689:

GATCCATGAA CCCTTTTAT AAGCTGTGTG TGCCTCTGT ATTATTGTTA TTAACATTTT 60
 TTAGNATTT GCCTGTAAGT TATTAAAGAC TGATAACTGT AGCTCTTAAA 110

(2) INFORMATION FOR SEQ ID NO: 7690:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 186
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08940

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7690:

GATCCAGCCA AACGAATTC TGGCAAAATG GCACTGAATC ATCCATATTT TAATGATTTG 60
 GACAATCAGA TTAAGAAGAT GTAGCTTCT GACAAAAAGT TTCCATATGT NATGTCAACA 120
 GATAGTTGTN TTTNNTTGT TAACTCTTGT CTATNTCTCT CTTATATATA TCCCNCNTTT 180
 ATCAAA 186

(2) INFORMATION FOR SEQ ID NO: 7691:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 231
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08941

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7691:

GATCATGTGA CCAATTGTGC ATTCAGTTTT CAGAATTCCTT TGCTATATGA TTTGGATTAA 60
 TTCTATATAA TTTTGGACTT TTAAATATTA AGGTTAAAAA ATACCTGTAT CTAAAATTGA 120
 TTCTGTTAAC TGTTGTCTTA AAATAAAGG TATTAAAGTA TAANNTTAAA ATTTNGCAATT 180
 TTTTAAAAAN NNTTGCAATT TTGATTCTCA TGGGGGAAAT TGGAGATAAT N 231

(2) INFORMATION FOR SEQ ID NO: 7692:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 277
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08942

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7692:

GATCACAATT TAATAACAAG TAAACTTTA CTTTGTGACAA TTTTGCCACT TATTTTGTAA 60
 TTTGTAAGCA CACGTTTGAA GATATATTTA TGCCATTAAT ATTTTAAGGC ATGTTTTTAAA 120
 ATTTACTGTT TTCTGAAAAA TTAAATGNNN CTGGTTTGAT TGCTGGAGAT TTATTCCAGT 180
 TTTNCTCAAA TGTATTTTNA TNCTGTATGG TACATTTTNG NGGATTNCCT GATTAATGTC 240
 ATCTTAGCAT TATATTCTGG TTATCTATAA TNNANNN 277

(2) INFORMATION FOR SEQ ID NO: 7693:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 312
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08943

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7693:

GATCTGGGCA AAGCAAATTG AAAACCTTCT GGAAAGGATT CACCATTTTA GATGCCATTA 60
 AAAACATTCG TGATTCATGG GAGGAGGTCA AATTGTCAAC ATTAACAGGA GTTTGGAAGA 120
 AGTTGATTCC CNNCCTCATT GATGACTATN AGGGGTTCAA GACTTCAGTG GAGGAAGTAA 180
 GTGCAGATGT GGTGGAAATA GCAAAAGAAC TAGAATTAGA AGTAGAGCCT GAAGATGTAA 240
 CTGANTTGCT GCAATCTCAT GNTAAANCTT TAACAGNTGA GGAGTTGTTT CTTATGGNTG 300
 CGCAAAGAAA TN 312

(2) INFORMATION FOR SEQ ID NO: 7694:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 83
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08944

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7694:

GATCTTTACT GTTCAGAATT TAGGAAAGTT CTCTGGCTGT TGCATCCAAG TAAAATTAAA 60
 ATAAAAATTGG TTGCANNTTT AAA 83

(2) INFORMATION FOR SEQ ID NO: 7695:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 263
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08945

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7695:

GATCCCTTCC TCTGTCTCTC TAACTCCCA GCCATGAATT TTGGCCCCAG GGAGAGGAAT 60
 AGGCAGTATA GGAGGGATGT CAGGGAAGTC ACATCTGTGG TTGAATCTCA GAAACAATGG 120

AAAGGCAGTT GTCTTTGGAT ATGGTGAAAT TGTGGTAGAG CACCCATGGT GGGGGTCTGG 180
 CAGGAGCTCT GCGGCTTCGG TAGCAGCAGT ATGAGGAGAG CTGGGCCACA TGCTTATGGG 240
 TTAGGAGAAG GTAATTTCCA GTN 263

(2) INFORMATION FOR SEQ ID NO: 7696:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 142
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08946

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7696:

GATCATGGCT GAAAAAGCAG CAAATGCAGC AGGAAAAAAG TTCCGAAAGA AGAAGAAATT 60
 TCGCAATTAA GATTTACCAA GCAAACGCA ACATTTTACA TTGCTCCTTT ATTTACTTAT 120
 TAAAGACGTT TGGAAACTA AA 142

(2) INFORMATION FOR SEQ ID NO: 7697:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 200
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08947

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7697:

GATCAAGATT GAGAAGACTA GATACATAAC AACCAACTGC AATGTTTGGT CCTTCATTGA 60
 ATGGTTGAAC AAACCAGCTG TGAAAGACAT TTTGGGACAT ACAGACATGG ACTGAGAATT 120
 AGACATAAGA AAATTATTTT GTTAACTGTT ATCATGGTTA ACAAACGGT CATATAATNT 180
 GATTATGTAG AGAAGTTAA 200

(2) INFORMATION FOR SEQ ID NO: 7698:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 351
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08948

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7698:

GATCTGCCTG CCTCAGCCTC CCAAAGTGCT GGGNTTACAC GCGTGANCAC CACACCCAGC 60
 CTCCATCTTT AAACCTTTTAA ATGTGAAATT TCTATCATGT ACCGTTAGCC TAACAAGATT 120
 TTNTTTCCTA TTTCTGACTG GTGCCTTTCC CCTTTTTAGG AGCAACGAAA GCTACTCTCT 180
 TAGTTATGTT CTTGTGATGT GACAAAATGT CAAGAAGATA GGAGAAGAGA ATATTTTATT 240
 TCGTTGATGC TTTTGTTCCT AAGTGTGACC CTAAACTTAA GCTTTGTAGG AGTTGACATT 300
 CTTTCATGTC CCTTCCCTTT ACTCATGCCG AAACATATCAA CTGGGNCATG N 351

(2) INFORMATION FOR SEQ ID NO: 7699:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 350
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08949

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7699:

```
GATCTGTTTC TGGGGCCTCT GGCGGTGGCG GCCTGGGGCG GCGCGACGGC TGGTGCGCAG 60
GTACANTGAT GCTGAAGTAC TATGAGCCTT CGGAACCTGT GGAGAGACTA CAANGTTTGT 120
GNNNTATGG TCCCTTTAGT TGGGCTCATA CATTTGGGGT GGTACAGAAT CAAAAGCAGC 180
CCTGTTTTTC AAATACCTAA AAACGACGAC ATTCCTGAGC AAGATAGTCT GGGACTTTCA 240
AATCTTCAGA AGAGCCAAAT CCAGGGGAAG TAGCAGGCTT GCAATCTTCA GGTAAAGAAG 300
CAGCTTTGAA TCTGAGCTTC ATATCGAAAG AAGAGATTGA AAAATACNN 350
```

(2) INFORMATION FOR SEQ ID NO: 7700:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 351
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08950

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7700:

```
GATCCCGCCA GAAATGAATA GACACCGCAA GAAACAAAGC TCGAGTGAAA GCTTGTTACA 60
TAATGATTGG ACTCACAATT ATCGCCTGCT TTGCTGTGAT AGTGTGAGCC AAAAGGGCTG 120
TAGAACGACA TGAATCCTTA ACAAGTTGGN NCTTGGCAAA GAAAGCTAAG NGGCGTGAAG 180
AAGCTGCATT GGCTGCACAG GCTAAAGCTA AATGNTATTC TAAGTGACAA AGTGTTCAAC 240
TGAATACCAT CCCTGTCATC AGCAACAGTN GAAGATGGGA AAAATNGAAT ATTTACCAAA 300
ATNTCTGCCA TGGTTTTTATT TTGGTAACCN GATGCACAAT GTCTTTTTTTT N 351
```

(2) INFORMATION FOR SEQ ID NO: 7701:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 85
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08951

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7701:

```
GATCATATGT GAAGATGTCA ATTAAGCTTG CATTAGCCA CCTGCTTTGT AAGTGGATTG 60
ATTAATAAAT AACTTATATT TCAAA 85
```

(2) INFORMATION FOR SEQ ID NO: 7702:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 89
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single

(D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08952
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7702:
 GATCCCAGGG GCTTATCTCT TCAAGTGTGG AGAGGGCAGG GTCCACGCCT CTGCTGTAGC 60
 TTATGAAATN AACTAATTGA AAATTCAAA 89

(2) INFORMATION FOR SEQ ID NO: 7703:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 375
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08953
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7703:
 GATCCAGTGG CAATTGTAAA ACTAGCTATT TATGGCATGC TGCCAAAAAA CCTTCACAGA 60
 AGAACATTTN ATGGAAAGGT TGCATCTTTT TCCAGATGAG TATATTCCNN CNGATATTCT 120
 TAAGAATTTA GTAGAGGAGC TTCCTCAACC ACGAAAAATA CCTAAACGTC TAGATGAGTA 180
 CACACANGAA GAANTAGACG CCTTCCCAAG ATTTGTGGAC TCCACCTGGA AGATTATCGG 240
 CTATAAGAGA ATAAGATTTG CAGATAATTA ACAGTTGANG TGATTGAGAC TTTCTNCTTG 300
 ATGAGTTTCT CTAACCTNCA GGGTGGTGTG AACCAACTGC TACAGTTCAG CACCTGTTTT 360
 TTTTGTGCCG NTTTN 375

(2) INFORMATION FOR SEQ ID NO: 7704:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 276
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08954
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7704:
 GATCACATCC TACTTCCTCA ATGAAGGGTC CCAAGCCCGT CCCC GTTCTT CCCACCGATA 60
 TTTCTNGAA CGCGGCCTGG AGTCAGCAAC CAGCCTCTAG CAGCTGCCTC TACGCGCTCT 120
 ACCTGCTTCC CCAACCCAGA CATTAAAATT GTTTAAGGAG AACCACACGT AGGGGATGTA 180
 CTTTTGGGAC AGAAGCAAGG TGGGAGTGTG CTCTGCAGCC GNGTCCAGCT ACTTCCTTTT 240
 GGAACCTTTA AATAGAATGG GTGTTGGTTG ATTAAA 276

(2) INFORMATION FOR SEQ ID NO: 7705:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 220
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08955
 (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7705:

GATCCACTGC CATTCTAATT GCTTTAACAA GTCATTACCA CACTACTGTT ACATCTTAAT 60
 TATGCATACA GACAGGTAGA CTTGTTTTAC ATATGTGAAC TAACTAGTTG TCAAAGCAAA 120
 TGCAGATTGT ATTCTGCAAG TAAAGTCTTT TTCTCTCTGA AATTTCTAGG GATGTTCTTT 180
 AAGTGAAATT CATATTAAAA CTGAAGATTT TNGTTACAAA 220

(2) INFORMATION FOR SEQ ID NO: 7706:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 252
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08956

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7706:

GATCCAAAGT AACTNAAACA GGAGCCCACA AGACGGTCTG CCAGATTGTN AGCGAAACCT 60
 GCTCCACCAA AACCTGAACC CAAACCAAGA AAAACATCTG CTAAGAAAGA ACCTGGAGCA 120
 AAGATTAGCA GAGGTGCTAA AGGGAAGAAG GAGGAAAAGC AGGAAGCTGG AAAGGAAGGT 180
 ACTGCACCAT CTGNAAATGG TGAACTAAA GCTGAAGAGG CACAGAAAAC TTGNTTCTNG 240
 TNGATTAACG AN 252

(2) INFORMATION FOR SEQ ID NO: 7707:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 166
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08957

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7707:

GATCTCCTGA CCTCAGGTGA TTCACCCACC TCAGCTTCCC AAAGTGCCGG GNTTACAAGC 60
 TTGAGCTACC GCGCCCAGCC AACACATCAC TTTTATCTTG CAGCTCCCGA GATTCTCTTT 120
 TCTGTGACTN TTAAATTGT GCTNACATAT GTGTTTGATA TAAATN 166

(2) INFORMATION FOR SEQ ID NO: 7708:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 52
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08958

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7708:

GATCAAAATA TTCTGGAAAA AAATAATAAA AAATAATTG TATACATTGA AA 52

(2) INFORMATION FOR SEQ ID NO: 7709:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 318
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08959

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7709:

```

GATCATACTN GTGATTATAA AAGNTCCTAG GAGGCTAGAA GAGCCAACCA ACAGAGAAGG 60
GAAAGCAGTC TGTTCCTGAAC ATAGGGACAT AAGTTCATTC ATGCCAAGTA TCTTTCCAGC 120
ATGTTTCTCC CATTTAGAAT ATCTAGCATN TAAGGCCTTT CAATATTAAT ATAAGCCCAA 180
TATCAGCTCT TTCTCTNTGT ATTTTCATCTC TTTCTACTCT CCNATTTGTA TTTGGTGTTC 240
CTNTTGAAAG TGTGCTATCT GGGAGATGAC CTGCCTTATC CTGTNCTATA ACAGTTTNTG 300
NTTGCTGCTG TGTCTTTN                                     318
  
```

(2) INFORMATION FOR SEQ ID NO: 7710:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 243
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08960

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7710:

```

GATCCAAGAA ATTACTGAAA TGGACAAGAA ATGTCATTAG TTAAAAGCCA TGTTATCTTG 60
AGCACACATA CAGTTAATTT GATAAAGAAG AGTATGCCTC TCAGCATTGT GAGATATATT 120
TCAGACTAAT TTGATGTTCT TTAATGTTCC CTTATTTTTTG AAACACGTTT TAAATGTGAA 180
ATTAATGTCC TTCACAAAAT GTCTTTTGAA AGCACTGTTA CAGTTGTATA AAGATGATGT 240
AAA                                     243
  
```

(2) INFORMATION FOR SEQ ID NO: 7711:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 122
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08961

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7711:

```

GATCTTGCT TCTGAGGGCT CATTTGTAGA GTGGTGAGAA TAATATCTAA CTTGCTAATC 60
TTTCAGAGAC ATTCTGAGAG ACATATGCAA AAGAACTTG TAAATAAAAA GCACTGTACA 120
AA                                     122
  
```

(2) INFORMATION FOR SEQ ID NO: 7712:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 240
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08962

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7712:

GATCCTTTAT TAAGCTTCTG ATTCATAAAA AAACCTATAA GAGACATTTG GGGGGATATT 60
 TGGGGAAATA GGAAGATGGA ATGGGTAGTA GATAATGTGG TATATTTNAT TTTNCTAGAA 120
 GTGATAATTG AGTTACGTAG GATAATGTTC TAATTCTTAG GAGATGCATG CAGAAGTTTT 180
 TTTTSTAAGT TTTGAAAAGN CATGATGTTG NCAGCATATT TNCAAATAAN TATGTCCAAA 240

(2) INFORMATION FOR SEQ ID NO: 7713:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 110
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08963

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7713:

GATCTGTGTC CAAAAGTGAA CTTNAGTCAG GAATGAATCA ATTTTCAGCAT AAACAAGCAC 60
 AAAANTTTAG TCTGCTGGCT GACTGGAAGC AAAAAAGTCA AGATGGNNNN 110

(2) INFORMATION FOR SEQ ID NO: 7714:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 111
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08964

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7714:

GATCTCAAAA CAATTGTTGC AGCAGGCTCC TGGCAGTCTC AAGCAGTTCA TCTTCTTGGT 60
 GTACTGGTTT CCTATTGTGA TTTTATCATG GAAAATCAAT TGGCTNNNNN N 111

(2) INFORMATION FOR SEQ ID NO: 7715:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 309
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08965

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7715:

GATCCTATAG GCAGAGAGTT TTCCTTTCTG ACTTTTTCCC TTTGCTTTCG TGTGACCACA 60
 TGTTTTCTGT ACCAGTCACT GGGGAAAGAA GTGAGTTTAT CTCGTTTGTT TTAAGAGTTT 120
 TGCTTGCTA TTTAGCATT CTTTTTGGGT CTCAAGATT ATGGAACAAT AAATGTCATT 180
 TAATGCTGTG TGCTTATTTT GAATTCCTCA TCAGGTTTTA GAAGCGGGGT AAAAATACTT 240
 AGATGCTTAT CAGACTTGAA ATTATACTGA GTGGCATTGA ACGTGAGTTT GTCCAGTGA 300

ACCAGGCTN

309

(2) INFORMATION FOR SEQ ID NO: 7716:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 204
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08966

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7716:

```

GATCCATGAA GCCAGAGCCT GGCTCTGGGT GACAGCAGGA AACGGCTGGG GAAAAGNACA 60
GCAGGGCGTC CAGCTGAGCC TGCCATTCCA GCCTGTTCGG GGGAAACAGC TCCAATCCT 120
AGACTGTGCT GCTCCGGGAG GGCTGCTGGT GGATATTGG GCTGTTTCA CCATATAGCT 180
GTCATGAAAA ATGCTTCCGT GAAA 204

```

(2) INFORMATION FOR SEQ ID NO: 7717:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 121
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08967

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7717:

```

GATCTCAGGA ATACAGTCCC ATGCAAAGAT TCTCTGGTTT TATGGCTTTT TTCCCTTTCT 60
TTACACCATC CTCTCCCATAGCACCCATG TTTTGAATA TGAATGTATT TGAAAATAA 120
A 121

```

(2) INFORMATION FOR SEQ ID NO: 7718:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 186
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08968

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7718:

```

GATCACCTGA GGTCCGGGACT AAAAATACAA AAATNAGCTG GGCATGGTAG CCGGTNCCTG 60
TAATCCCAGC TATTNGGAA ACTNAGAACA AGAGACTTGC TTGACCCTGG GAGGTGAAGG 120
TTGCAGAGAG CCGAGGTAGT GCCACTCCAC TCCAGCCTGG NCGACAGAGT GAAACTCCGT 180
CTCAA 186

```

(2) INFORMATION FOR SEQ ID NO: 7719:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 351
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single

(D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08969
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7719:
 GATCAGCTCT CTGTTTTGGA AAATGGAGTA GATATAGTTC TAGGTACTCC GGGAAAGACTA 60
 GATGACTTGG TGTCAACTGG AAAGCTGAAC TTATCTCAAG TTAGATTCCCT GGTCCTGGAT 120
 GAAGCTGATG GGCTTCTTTC TCAAGGTTAT TCTGATTTTA TAAATAGGAT GCACAATCAG 180
 ATTCCTCAGG TTACCTCTGA TGGAAAAAGA CTTCAGGTGA TTGTTTGCTC TGCCACTTTG 240
 CATTCTNTCG ATGTAAAGAA ACTNTCCGAG AAGATAATGC ATTTCCCTAC ATGGGTTGAC 300
 TTAAGAGGAG AAGGCTCTGT TTCCAGATTN CTGTACACCA TGTTGTTNAA N 351

(2) INFORMATION FOR SEQ ID NO: 7720:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 142
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08970
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7720:
 GATCCCAAAG AAGTAACGGG AAAAAGGAAT GTAAGGCATC TCGATAATNT TTTTCATATTG 60
 ATTACATGTT GAAATANTAT TTTGTATNTA TTGAGTTAAG AAAAATATGT CATTAAAATT 120
 AATNTCACCT GTTCTCTTTA AA 142

(2) INFORMATION FOR SEQ ID NO: 7721:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 130
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08971
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7721:
 GATCTTGTTGA ATCAAATTCA CAAACATCAG CTTGTTACAA ATCATTNTAT TTATACCCCTT 60
 TAAAGAGTGT GGATTAAAGA TTCTTGAAAG GATGTAGNCT ATATANTTTC TCATTCCNTA 120
 TGGTGTAACN 130

(2) INFORMATION FOR SEQ ID NO: 7722:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 180
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08972
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7722:

GATCGTTAAT TAATATCTTT CCA'INCGAAG AGNAAGCAGA TTTCTTCTGA GATTTCTGAA 60
 CAGTTCCTGG GTGTTTCCGG TTCTGCTTCA GTGTACTATC ACTTTGCCTT GCCTCAGTCT 120
 CTCCTTCCTC CGGGGCCACA GAAGGAGAAA GCCCAAAGCA TACCCATCCT GCCCTTTAAA 180

(2) INFORMATION FOR SEQ ID NO: 7723:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 266
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08973

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7723:

GATCACTGTC CCGNTTCAAA TTATTCTTCA GTCCATTTCC CCGGCCTATT TCAGCTGTTC 60
 CTTTTCACCT AACTGTTNAG TCATTNCGGT TTTCAAGCAG TGCTTNATCT CATGTCCTTG 120
 AATATAGTTG TGTACTTTAT TNTTNAGGTA ATAATTAGAA CAGTTCCCTT CAGAGGCTGC 180
 ATTTGCCTTC TTCTGCCACC TAAATATTAC TTCCCTTCAA ATCNGCCTTT GAATCATCNN 240
 NTTTAAAAAA AANTTANCAT GNTTTN 266

(2) INFORMATION FOR SEQ ID NO: 7724:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 33
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08974

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7724:

GATCAAAGGT ACCATGACCA AATAAGAAAC AAA 33

(2) INFORMATION FOR SEQ ID NO: 7725:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 219
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08975

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7725:

GATCTTCTTT TTINTTCTGG AGCCAGACTT NCTGGGCTTN NATTGCTGCT ATGCTACTTA 60
 CTTGGAAATC TTGGACAAGT TACCTAATTT CCTTGTTCTT AAGTTACTTC TGTTGTAAAA 120
 TGATGTGGCC AATAATAGTG CCTATCTCAT AACATGGTTA TTAGAATTAA ACAAGTTAAT 180
 ACTTTTAAAA TGCTTAGAAC AATTGTGGGT ACATACTAN 219

(2) INFORMATION FOR SEQ ID NO: 7726:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 275
- (B) TYPE: nucleic acid

- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS08976
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7726:

```
GATCTGTCTG GNAACAGTTT ATGGAAATAT AGATATTCAT GCATCANATA AAAGTGCTGT 60
GACCATAGAT AAAGTGCAGG GAAGTTCTGT NACTGTATCT ACCGAAGATG GTTTGCTGAA 120
AGCCAAGTAT CTTTATACAG AATCATCATT TCTGTCTTCT GCTGCTGGGG ATATTACATT 180
AGGAAGTGTT CATGGNAATA TAACATTACA AAGCAAGANG GGTAGCATCA CAGTNGATTG 240
GTCTTCTGGA TGTCTAAAAG CCTCAACTAA TCAGN 275
```

(2) INFORMATION FOR SEQ ID NO: 7727:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 37
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS08977
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7727:

```
GATCCCAGGT TCTCATGAAC CAAATAAGTA ACTTAAA 37
```

(2) INFORMATION FOR SEQ ID NO: 7728:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 97
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS08978
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7728:

```
GATCTGCCCA CCTNGGCCTC CCAGAGTGCT GGGATTACAG GCATGAGCCA CTGCGCCCCG 60
NCTGTACTAA GTCTTTTTTT TTTAAATTC CTCNAAA 97
```

(2) INFORMATION FOR SEQ ID NO: 7729:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 284
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS08979
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7729:

```
GATCTATGAA CTTCTGCCCC ACATAACTTT TAAAGCAGTA TTTTATAAAC CCCATGAAGA 60
GCTTGCTTTT TTGTCTTTGT AATTCCTTAG GGTCTGTGAT ATATGCCAGG AAATCTGATT 120
GAAACTAATA TGCTTTTTAT TCTCCCATTA TTCCCTAAAT NGTTATATCA CAGGCACTTG 180
```

CCTACATTGG GAAAGTAAGG ACAAATAATA CCCATTTAAA G'AACTNGCC TATTATTNNG 240
 ACTGTCTTTC GTAAGCACTT GCTGAACNGC TGA'CTTAACT CAGN 284

(2) INFORMATION FOR SEQ ID NO: 7730:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 374
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08980

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7730:

GATCTCGCAA TGGGGAAGGC CCTGGTCGAC CAGAGGGAGC TGTACCTGGG CCTGCTCTAC 60
 CCCACGGAGG ACTACAAGGT ATACGGCTAC GTCACCAACT CCAAGGTGAA GTTTGTCATG 120
 GTGGTAGATT CCTCCAACAC AGCCCTTCGA GACAACGAAA TTCGCAGCAT NTTCCGGAAG 180
 CTACACA'ACT CCTACACAGA CGTGATGTGC A'CCCCCTTCT ACA'CCCCGGG GGACCGTATC 240
 CAGTCCAGGG CCTTTGATAA CATGGTGACG TCGATGATTG ATACAGGTTG TGCTGAGTGA 300
 GCTGTGCTGC CAGCCATCGN AGAGGAGCCC NTNGCACGAC TTGTGGTGGG GTCCGTCGGT 360
 CTTGTTTCTN TTTN 374

(2) INFORMATION FOR SEQ ID NO: 7731:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 164
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08981

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7731:

GATCCGGTTG GACTCTGACA TCGGATGCCC TCAAACATAC AGAACTTCCA AACTCAAGTC 60
 CAGCCATAAG CTATTTTGCC AACATGTCAG AGTAATCTGT ATTTTGTAT GTGATTCTA 120
 CTTTATAGA CTTGTTTTAA AACAATAAAA CACATTTTTA TAAA 164

(2) INFORMATION FOR SEQ ID NO: 7732:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 287
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08982

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7732:

GATCTTTTAT GAAAATTAAT TGTGCCCATG TCCAAGTTTG AATTAGAGAT ACACAGCACA 60
 CAATCATTTT TGTTACCACT TTTGGAATAT CTAGCATTAG CCTTGATAGT TTTGTGTGGT 120
 GTGTTTTGAG TATATCTGAN CTGTTAGTTA TATTTGGTTA ATTTATTAAA NGATGTGTGT 180
 TAANCCTTAA TATTTATGCA GTGTTTAAGT ATTTGGAATA TATTNGAAAT AAATTATCCA 240
 GTGTTTTAGA TAAATGGTTA TTTAATTGCN NAANGTGATT CTCTAAA 287

(2) INFORMATION FOR SEQ ID NO: 7733:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 173
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08983

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7733:

```
GATCTGTGCC GTTCAATAGG CATCGTCTCT CAGCCTGAGG GAGGCTGGAT TCTGGGTTCC 60
TGTAGTCACA GGGAGGAAAA GCTTTCTTAA AAATGGACAT GTATGTGCGT GTNAGTGTGT 120
GTGTAGATTT ATAGTTTTTG GTAGTGGCAG GAATAAAAAA AATCCATCCT AAA 173
```

(2) INFORMATION FOR SEQ ID NO: 7734:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 198
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08984

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7734:

```
GATCTCTATT TTGTGCCCAG ACTCTGAGCT GCTTTATGAA CACCTCAATT AAATNACTTC 60
ATTGGAGTGA TTTGAGTAAT CTATCTATAG TGTAATATTT TCTATGAATA ATTTTCTGTA 120
ACCTTATTTT ATAAGTTAAT ATCTAAAAAG TGTTTATTTT CAAATTGCCA AATAAAAGGT 180
TTTATATTAG TCATTAAA 198
```

(2) INFORMATION FOR SEQ ID NO: 7735:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 94
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08985

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7735:

```
GATCTAGAGA CTCATTCAAT AGCAATGTGA CCTTTTAAAT ACTTACATTA AGTAAAACTG 60
CCAGTAGATT AAATCATATA TATATATATA TATN 94
```

(2) INFORMATION FOR SEQ ID NO: 7736:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 363
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08986

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7736:

```

GATCACCTGN ACTCCAGCTC AGATTGCCTC TCCTGGACAT GGCAATGAAT GAGTTTTTAA 60
AAAAACAGTGT GGATGATGAT ATGCTNTTNT GAGCAAGCAA AAGCAGAAAC GTGAAGCCGT 120
GATACAAATT GGTGAACAAA AAATGCCCAA GGCTTCTCAT GTCTTTATTC TGAAGAGCTT 180
TAATATATAC TCTATGTAGT TTNNTAAGCA CTGTACGTAG AAGGCCTTAG GTGTTGCATG 240
TCTATGCTTG TGGAACTTTT CCAAATGTGT GTGTCTGCAT GTNTGTTTGT ACATAGAAGT 300
CATAGATGCA GANGTGGTTC TNCTGGTACG ATTTGATTCC TGTTGGGATG TTTTAACTAA 360
NAN 363

```

(2) INFORMATION FOR SEQ ID NO: 7737:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 262
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

(vii) IMMEDIATE SOURCE:

```

(B) CLONE: HUMGS08987

```

(ix) FEATURE:

```

(D) OTHER INFORMATION: "N"=unidentified base

```

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7737:

```

GATCTTCTTT GATGATGAGA GGC GGAATAT TGTAGACGTC AGCAAACCTGG GTGTTACCTG 60
CATTCACATC CAGAAATGGAA TGAATCTTCA AACTCTAAGT CAAGGGTTAG AGACATTTGC 120
AAAGGCCCAA ACTGGGCCCTT TAAGGTCCAG CCTTGAGGAG AGCCCATTN AGGCCTAAAC 180
TGAAAGGAAA TCAAGAAGGC ATTTTCAGGT GCATTTGTAA TTTATTAAAG TTCATCTGTG 240
TGTGACAGAA AAAAAAAGTA AA 262

```

(2) INFORMATION FOR SEQ ID NO: 7738:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 361
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

(vii) IMMEDIATE SOURCE:

```

(B) CLONE: HUMGS08988

```

(ix) FEATURE:

```

(D) OTHER INFORMATION: "N"=unidentified base

```

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7738:

```

GATCTGTGCC ACATGGAGGT TTTGGGATGG GATTTNAACG CTACCTGCAG TGCATCTTGG 60
GTGTTGACAA TATCANAGAT GTTATCCCTT TCCCAAGGTT TCCTCATTCA TGCCTTTNAT 120
AGCTGGAAGA TTGGTTAAGG CAAAGCACCC CCCATGGCAG AGACACTGCA CATGATTGTN 180
CATACAGCAG AATGCATGTT TGGATTNTAG AAATGCAGAT TTCAATATGT AATTGTTGTG 240
CCATAAGATA TCATAGNAAA NNTATAAGTG GTTGTNCTTT TCTTAGAAAG TTGAGGGTAT 300
TTCACGTAAG GATGAGCTCC CGCAAGNNGA GGTACTTNTT AGCANGGGGA CTCTCAATCG 360
N 361

```

(2) INFORMATION FOR SEQ ID NO: 7739:

(i) SEQUENCE CHARACTERISTICS:

```

(A) LENGTH: 143
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

```

(vii) IMMEDIATE SOURCE:

```

(B) CLONE: HUMGS08989

```

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7739:

GATCTTGATG TGGGTGATAG TTTTACTTAT GTACATCGAT ATACATCTAT TTAAAAACAT 60
 GTACATTTAA ATTGTTGCAT TTTATGTATT TAAAATTTAT TGAGTANTCC TTCTGTATGT 120
 ATTATTAAAG AGAATATAGC AAA 143

(2) INFORMATION FOR SEQ ID NO: 7740:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 333
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08990

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7740:

GATCATAGAG TTTGGCTGGG GAGGGGGGCA GTTTTAGAGG CTTCCACTTG GTGTTCTCTCA 60
 GAATGATATC TCTTACTCCG GGGGCCAAGG TAGGGGTTAG CTTTGTGTTCT CTTTGTAGTT 120
 TAGATTGTAT CTCTTGCCCT GTTCAAGTTC ACAAATCTTT TTGTGTATAC ACATATGTAC 180
 ATGAAAATNA TGTTCAATGCT TTTAATTATT TTACCCTTCA TTATTTTCATT TTTNATAGTT 240
 CTCATAGCTA TGTCTTTCAG TTCCTAATC TTTTTCAC AGTGTTTAAT CTGTCATTAA 300
 ATCCCATCCA AAGTATGTTT TCTCTCAGAA GAN 333

(2) INFORMATION FOR SEQ ID NO: 7741:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 135
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08991

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7741:

GATCCTTGTA CACTGTTTAT ATGTGCAATA AAATGCATGG CCAGCTGACA GTATCGTCAG 60
 TGGACAGAAT GTATATAGTG CAAATATCCT TCCTTTTATT ATTTAACAGC CATTAAATC 120
 TTGGATTTGT ACAA 135

(2) INFORMATION FOR SEQ ID NO: 7742:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 333
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS08992

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7742:

GATCCCAGTT CACAATTATT CACCGGGTAT TTAGTTATTC ANAGGCTGCT CTGCTGAGAA 60
 GNTGAACAAA TTTCTTGTC AAAACAATGT ATTTCAAACG TGCCGCTCGG GCCTTTCCCG 120
 TATTGCTCAC TGGTGCTGGG AAGACAACAC TTCTGAACATA TATTTTGACA GAGCAACATA 180

GTAAAAGAGT AGCGNNNNCT TTAAATGAAT TTGGGGAAGG AAGTGCCTG GAGAAATCCT 240
 TAGCTGTCAG CCAAGGTGGA GAGCTCTATG AAGAGTGGCT GGAAGTTAGA AACGGTTGCC 300
 TCTGCTGTTC AGTGAAGTGA GGAATGTGTT TTN 333

(2) INFORMATION FOR SEQ ID NO: 7743:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 219
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08993

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7743:

GATCCCAACT GTATAACATT CTGAAAAAGG CACAACATATG GAGACAATAA AAAGAACAGA 60
 GTTTTGGATG AAGGGAGGGA TGAACAGGCA GAATACAAAC AAATTTTAGG GCAGTGAAAC 120
 TATTATTATG ATACTTTATG GATATAGAAT ATTATGCATT TTTCAAAACA CATAGAATAT 180
 ACAACATGAA GAATGAATGC TAATGTAAAC TGGATTTTN 219

(2) INFORMATION FOR SEQ ID NO: 7744:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 59
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08994

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7744:

GATCTTGGGC CACACATGAA AATACACTAA CACTAATGAC AGCTGATGAG ATGCTTAA 59

(2) INFORMATION FOR SEQ ID NO: 7745:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 353
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS08995

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7745:

GATCAGAGTG ATGCTGGAAC TCAGTGTGCA TAAAATTTCA GTCAGTGAAT ATCACTGAAC 60
 GTCATATACT ACTTGGTATG TGAAGTTTGGT TTGTGTTAAG AAAGCTTGTA TATAATATTT 120
 TTNGCCATAG TAAGTGAGAA ATTGTCCTTA ATCATGCCTG TTTGATGGTA CTAGGAAAGA 180
 AAGGGGTAGA GATTAATTCT TGCACAGTAT AAGCAACAGT GCAACAACT ATGCCATTTN 240
 CCTTTTNCCT CTTACTTGAA GGCAGAATCG CAAAACGTTT GANATGGCTT TCCTAAACTA 300
 CTCTACTCTG GTGNGAGCTC ATTTACCACA NGAAGCCTTA TAACACCGTT TTN 353

(2) INFORMATION FOR SEQ ID NO: 7746:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 327

(B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08996
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7746:
 GATCAGGTGA TTGCCTTTCT CAGCTGTCAG TTCTCTAATT TCAGGCTTGG TAGCTTGTAG 60
 GAACTGAAAT TGCAATTAAA ACCTTTATAA ACTCAAACTA AATCATGAAT TACAGAAAAA 120
 GTCCATTCTT CCAAACTTGG ATGTTACCAC ACTTACAAAGT TAAAAATATG AAGTCGACTG 180
 TTTAAAGGAT TCTGCATATA TTCTAGTGTG CACATTCAGA AACATTTTTC TTGGAAAAAG 240
 TACCCAACAT TTTTATAAC TGCACATATT AATTTATTGC CAGAATAAAT TGCATTGCAT 300
 GCTAAATTAA NGTCAGATAN TTCNAAA 327

(2) INFORMATION FOR SEQ ID NO: 7747:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 153
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08997
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7747:
 GATCATGTAA ACTTGCTGTT TTNGTTTTTN CCTGCCGGGT GTTGTATGTG TGGTGACTTG 60
 CGGATTTATG TTTCAGTGTA CTGGAACTT TCCATTTTAT TCAAGAAATC TGTTTCATGTT 120
 AAAAGCCTTG ATTAAAGAGG AAGTTTTTAT AAA 153

(2) INFORMATION FOR SEQ ID NO: 7748:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 41
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08998
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7748:
 GATCTTAATT TTGTTTTTGG TTAAAAATAG TGTTTCCTTT N 41

(2) INFORMATION FOR SEQ ID NO: 7749:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 299
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS08999
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7749:

GATCTATCTA AATGCCGATT TGAGTTCGCG AACTATGTA CTGCGTTTTT AATTCTTGTA 60
 TTNANACTAT TTAATCCTTT CTACTTGTCTG CTAAATATAA TTGTTTTAGT CTTATGGCAT 120
 GATGATAGCA TATGTGTTCA GGTTTATAGC TGTGTGTTTT AAAANTTGAA AAAAGTGGAA 180
 ANCATCTTTG TNCATTTAAG TCTGTATTAT AATAAGCAAA ANGNTTGTNT GTATGTNTGT 240
 TTNATATAAC ATGACAGGCA CTAGGACGTC TGCCTTTTTN NGGCAGTNCC GTTAAGGGN 299

(2) INFORMATION FOR SEQ ID NO: 7750:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 169
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS09000

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7750:

GATCAATTAG ACATTTTGAA AATAATTTAA AGTGTTCCTT TTAATGTTCT CTGAAAACAA 60
 GTTCTTTTG TAGTTTAAAC CAAAAAGTG CCCTTTTGT CACTGGATTC TCCTAGCATT 120
 CATGATTTTT TTTTCATACA ATGAATTAA ATTGCTAAA TCATGGAAA 169

(2) INFORMATION FOR SEQ ID NO: 7751:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 53
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS09001

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7751:

GATCATTTAA TGAATCCTCA AGGACTAATG AAATAAATGC TAGACTGCTG AAA 53

(2) INFORMATION FOR SEQ ID NO: 7752:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 252
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS09002

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7752:

GATCCTGAAA ATAAACTAA CACTCCAGTA TTTTGTTCATT GTTTTCGCA ATTGAGCTAT 60
 CTGAAACTG TTATTCCTAA GTAATGTTCA AAAATGATAA GTAATCTGGA TACCTTTTTC 120
 TTATACTTTC TCCTAGGAAA ACTTTAAAC TTTAAAAGG CAAACCTACC AATAGGAATA 180
 ACANATTAAA TGTCAAGAGA GTATATCCAA TATTAGGATA TAANTGTATG TGTCTCAAGT 240
 TTAACCTCTAC AN 252

(2) INFORMATION FOR SEQ ID NO: 7753:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 237

- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS09003
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7753:

```
GATCTACAAA AAATTCCTGG AGCCATATAT ATACCCTCTG GTNTCCCAT TCGCTAGTCG 60
TATATNGCCT NAGAAAGCAA TACAAGAATC CAATAATACA AACAAAGGCA NAGTAAACTT 120
TAAGGGNGCA GACATGAATG GCTTACCAAC AAAAGGACCA NCAGAAATCT GTGATAAAAA 180
GAAAGACTAA AGAAATTTTC CTAAAGGACC CCATCATTTA AAAANTGGNC CNGGNNN 237
```

(2) INFORMATION FOR SEQ ID NO: 7754:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 264
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS09004
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7754:

```
GATCTTCCCA AACCCAGAGA AAGACATCAA TTTCCAAGAA CAAGAAGGTT ATCAAACACC 60
AGGCAGATTT AACCCAGAGG ATACTACCTC AAGGCATTTA ATAATCAAAC NNCCAAAAGT 120
CAAGAATAAG GAAATAATCC TAAAAGCAGC AAGAGAAAAG AAACAANTAA TATACANTGG 180
AGTTCCACTA TATCTGGCAG CAGACTCTTC ATTGGAAACC TTATAGGCCA GGNGNGAGTG 240
GCATGACACA TTTAANGTAC TGGN 264
```

(2) INFORMATION FOR SEQ ID NO: 7755:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 286
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: HUMGS09005
- (ix) FEATURE:
 - (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7755:

```
GATCCAGAGC TGTTGCCTGT GACAGCGGTT TCTNTGGATG TCAAAGGCAG CTGCCTGGTT 60
GCCCAGCTTG CTTCTCGACT GGTGGCCCCT ATGGGTGGGT GTGCGATGGA AATNTGTTCC 120
TGCCGGAGTC TGAGGCACCA GGTGTGCTC AAAGGCTGGC CCTGGTGGTG GACTGGCACC 180
TGTGCAGAGT GCCGTGTGCT TGTGGTGC GC CATCTGAAGC AAGAGTCCAG CGTTCTGCCG 240
TGCTGTCCCC CCACCATGCC CCCTACAGGC GGTACTGATG GCGCTN 286
```

(2) INFORMATION FOR SEQ ID NO: 7756:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 382
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS09006

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7756:

```
GATCCTTTTT CCTTCAGCAG CATTCTTAC TGGCTGTGGC TGGAATCTGC CTTTAATCAC 60
AGCTGTCACC ATTCTCACGT GATTCTTGTG AGACTCTTTT TGGTTATAAT TACTATTTAA 120
TATTTAGACT ATTTTACTGA GCAGACTTTA TAAATGAGAT ATCTACAAGG CACTTAAAGT 180
GTTACAGATG TTTTACCTTA AGANTTATTT AAGTNGTGTT GGGTTAAGAC AGTTTTTCAGT 240
GTACCGTAAA TGTGTGTGTT TCAGAAAAAG ACAAACGAT GGTGCTGACT GGTTTTCTGT 300
ATATNGCACA ACAGTCCTCA AATACACTGG ATGTATGGAA CCTNTTCCTT NCATCCAGGC 360
AGCATTTTTN TTNCNCTCTN CN 382
```

(2) INFORMATION FOR SEQ ID NO: 7757:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 298
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS09007

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7757:

```
GATCATCTTT GAGTAGCACT GTTTTGGGGC CCTCGGTCTC TCTGAAGACC CTAGCAGAAC 60
TGATACCTAC CTGTATCTCT TGTTCTCTCC TATTTGAGTT TCACTTCCAG AGAAGTTGTT 120
CTTCAGCAAG AATGTGTCAC TAGTAAGGAC ATCTCTAGCA TTTCTCTAGC CTTCTTTTTC 180
TGCTGCTCAA AAATAATCGT TACAAAGCTT AGGTTTAAAGC TGTATATGAA ATATTTATGC 240
GACTCTCAAA CTTTAAAGGA GTTGCTCCTT TGTTCCAAA TTAAATGTGT TAGATAAA 298
```

(2) INFORMATION FOR SEQ ID NO: 7758:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 292
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS09008

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7758:

```
GATCATGGTC TTCAAAGATG TAAATACAAG AGAACCAAAG TTATTCCGGG CAGTTCCAGA 60
TTCAGAACGT GTTATTCCTC CCAGAACGAC AACGCCATAT TTCCTTTGAG GCCTTCGCCC 120
ATCCTGCTGA CCCATTTTTN TGCCCTCTTC TTACCCCAAT TTTNTTGTAT TACCCTCTAC 180
AATATACTTT TNATTGAGCA CTTTGCTGCT GAAATGCTGC CTCTGCCTT TTTTTTTTNA 240
AATTTTAAAT TATCTAAATT TATGGTTTGT GGTGGTGTCT ATNGCAAAGT TN 292
```

(2) INFORMATION FOR SEQ ID NO: 7759:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 307
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS09009

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7759:

```

GATCTGTTAA TGAAAAGTGC TGGAATACCT CAACCAAGAA AAGGCAGAAA AGGGAAGGGA 60
GCATATTGCT AAGAGAGCAA TGGAAAATAT GTAAGCTGCT TTCATTAATT ACCCTACTTT 120
CATTCCTCCC ACCCCAAGCA AATCCCAACA TTTCTCTTCA GTGTGTTGAC TTCTATCCTG 180
TTAACACTGT AATATCTTTA AATGATGTAC AGGCAGATGA AACCAGGTCA CTGGGGAGTC 240
TGCTTCATTT CCTCTGAGCT GTTATCTTGT GTATGGATAT GTGTAAATGT NGGTGACTCC 300
TTGATAN 307

```

(2) INFORMATION FOR SEQ ID NO: 7760:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 165
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS09010

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7760:

```

GATCTCTGAA CATGAAAACC AAGGTGGCTA TTTTCAGGTT GCTTTCAGCT CCAAGTAGAA 60
ATAACCAGAA TTGGCTTACA TTAAAGAAAC TGCATCTAGA AATAAGTCCT AAGATACTAT 120
TTCTATGGCT CAAAATAAAA AGGAACCCAG ATTTCTTTCC CTAAG 165

```

(2) INFORMATION FOR SEQ ID NO: 7761:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 334
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS09011

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7761:

```

GATCGATGAC GCAGGTCCTT CCAGTGAAAT GAATGGTCTC AAAAAATGGA GAGGATGTGC 60
TGGGGATTTA GAAGGCAGGG TAGCCAGAAA GAAGCACAAA TTACCCCCAC CATAAGCTTC 120
ACAGAATTGC TGACGCTAAC GGCCATGGGT GAGATTTTTG CAATAAGTGT CAGCCTGATG 180
ACAGATACCA CAGACAGTTG CAAAATGTC CAAGTTTCTC CTGAAGTTTT CTGGCAGGGC 240
AGTGGGCTCC ATCCTTAGGA GTGAATCAGC TTTGGTGAGT ATCGTGATTG AACAGAGCCT 300
TAACACCAGG GCCCCCTTAA CTCCGCACTC CTTN 334

```

(2) INFORMATION FOR SEQ ID NO: 7762:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 247
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS09012

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7762:

```

GATCGCTTTG ATTTTAAAGT TCATGGGAAC TACCAACTTG TTTCTAAAGA GCTATCTTAA 60
GACCAATATC TCTTTGTTTT TAAACAAAAG ATATTATTIN GTGTATGAAT CTAAATCAAG 120
CCCATCTGTC ATTATGTTAC TGTC'TTTTTT AATCATGTGG TTTTGTATAT TAATAATTGT 180
NGACTTTCTT AGATTCACTT CCATATGTGA ATGTAAGCNC TTAACATATG CTCTTTGTAA 240
TGTGTAN 247

```

(2) INFORMATION FOR SEQ ID NO: 7763:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 312
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS09013

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7763:

```

GATCCTTCCT GAGCGTTTCC TGGCAGTTTT AAAACGAAAA ATCAGTGTTA AGTTTGATGC 60
AGTTATTGGA TATAAAATGA AAGCGCAATA AGCACCTAGT TTTCTGAAAA CTGATTTACC 120
AGGTTTAGGT TGATGTCATC TAATAGTGCC AGAATTTTAA TGTTTGANCT TCTGTTTTTT 180
CTAATTATCC CCATTTCTTC AATATCATTT TTGAGGCTTT GGCAGTCTTC ATTTACTACC 240
ACTTGTTCTT TAGCCAAAAG CTGATTACAT ATGATATAAA CAGAGAAATA CCTTTAGAGG 300
TGACTTTAAG GN 312

```

(2) INFORMATION FOR SEQ ID NO: 7764:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 93
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS09014

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7764:

```

GATCTGCCTG TCCGGGCTGG GACAGAGACT CCCCAAGNAC CCCATTCTGC CTCCTTCTGG 60
GGAAATAAAT AAGTGTCTGT TTCAGCAGCT AAA 93

```

(2) INFORMATION FOR SEQ ID NO: 7765:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 133
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS09015

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7765:

```

GATCTGGCTA AGCATCTTCC TCATGCTTTC AGTAAATTGG AAAACCCACG GAGGTTAAAT 60
ATTACCTTTT TTTTTTTAAA CTTAAANCAA TNCTGTTTAT TTTTNNATTA CATTTNCCCA 120
TATGNGNGGA ATN 133

```

(2) INFORMATION FOR SEQ ID NO: 7766:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 300
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS09016
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7766:
 GATCGTNAAG ACCCCAAATG GACTTATTTT AAGTCACTTG CCAAATGGCC CAACTGCTCA 60
 TTTTAAAATN AGCAGNGTTC GTCTTCGTAA AGAAATTAAG AGAAGAGGCA AGGACCCAC 120
 AGANCACATA CCTGAANTAA TTCTGAATAA TTTTACANCA CGGCTGGGTC ATTCAATTGG 180
 NCGTATGTTT GCATCTCTCT TTCCTCATAA TCCTCAATTN NTCGGNAGGC AGGTTGCCAC 240
 ATCCACAAT CAACGGGATT ACATATTCTT CAGATTTTAC AGATACATAT TCAGGTGTGN 300

(2) INFORMATION FOR SEQ ID NO: 7767:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 105
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS09017
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7767:
 GATCAAAGTA GCCACAACAT TCTCTTAAGC CAAAGNCCAA TCCAGAACAA NGCCCTAACT 60
 CTCTTCAATT CTATGAAGAC TAAAAAGTA AGGAAGCTNC AGANN 105

(2) INFORMATION FOR SEQ ID NO: 7768:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 216
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS09018
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7768:
 GATCGTCAAA CCATTCATCC TTTTAAAGGT TTATTTGAAG ATGCTGTAA AGTACAGAAT 60
 TTTGTGTACA GGTAGATTTT TCCGTCCCTC ATTAATAGTG CCTTCTTAAT TAATACAGNC 120
 TGGTGTTAGC TATAACAAGG CNCCAGTAAG GCCAAAGAAT CCCAAGTTCT TTGTGGAAAA 180
 ANAAAAAANN NCTTTTGGGG NCAGNTTTC CCTTCN 216

(2) INFORMATION FOR SEQ ID NO: 7769:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 75
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS09019

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7769:

GATCCTCCCG TGTGTGGTTG GAAAACTTTT GTTTTTTGGG GTTTTTTTTT TCTGAATAAA 60
 AAAGATNCTA CTAAA 75

(2) INFORMATION FOR SEQ ID NO: 7770:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 341
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS09020

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7770:

GATCTGTGTC TTAATTGTTT AGTTAGAGTG AGAAGTTGAC CTATGATTCT TTTTAAATT 60
 TTATATTTGG AACAAAGCTG CAAGTTATGG TAANGTACTG TACTGNGNGA NGTATTATGA 120
 TATTTAATGC ATCTNTGGCT TAACACTTGT GAGAGTTACC AGCTTGAAAA TGATGGTGTT 180
 GACTACCTCT TGANTCACAT CTATCAACCA CTGGCACCTA CCACCAAGCT GGCTTCAATT 240
 AGTATGTGTT GCTTTTTGGT ATTAACANCT AACCGTACTA GAGACCAAAG TGAACCCTGA 300
 TTTTTAATAT GTNTTTAATA ATGGTGGTTT TATCTAGTGG N 341

(2) INFORMATION FOR SEQ ID NO: 7771:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 238
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS09021

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7771:

GATCCAAGCC TGGAGTTTGC AGAAGATACT GTCCTAATAA GCAGGCATTT CTAAACCAAG 60
 TATCTAAGCC TAAGCACAGC TTGTCCTGGG TGAAATGTCT GCCACAAAAG ATAGTTTCTC 120
 CTAGCTCAGA CTTAACCATT TATAAAGGTT GGTAAAATAC TGGCAGTGAC AACAAATTGA 180
 CTTTTTAATT TTTTATTATT CATTATTCCA ATAAATGAAA ATCTGTCAGA GTTCTAAA 238

(2) INFORMATION FOR SEQ ID NO: 7772:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 123
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS09022

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7772:

GATCTGCCCC CACTGTCCTG TGAGGACAGC TGAGGCCAAG NAGTGAAAAA CCTATTACTA 60
 CTAAGAGAAG GGGTGCAGAG TGTTTACCTG GTGCTCTCAA CAGGACTTAA CATCAACAGG 120
 AAA 123

(2) INFORMATION FOR SEQ ID NO: 7773:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 361
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS09023

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7773:

```
GATCCAGGTA GAATTTTNAACACCAATCAAA TGAAAAAAC AAACAAACAA AAAAGGAAAT 60
GTCATGTGAG GTTAAACCAG TTTGCATTCC CCTAATGTGG AAAAAGTAAG AGGACTACTC 120
AGCACTGTTT GANGATTGCN TCTTCTACAG CTTCTGAGAA TTGTNTTATT TCACTTGCCA 180
AGTGAAGGAC CCCCTCCCCA ACATGCCCCA GCCCACCCTT AAGCATGGTC CCTTGTCACC 240
AGGCAACCAG GAAACTGCTA CTTGTGNNCC TCACCAGAGA CCAGGAGGGT TTGGTTAGCT 300
CACAGGACTT CCCCCACCCC AGANGNTTAG CATCCCATAC TAGACTCNTA CTCAACTTNN 360
N 361
```

(2) INFORMATION FOR SEQ ID NO: 7774:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 54
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS09024

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7774:

```
GATCAAGCGA ACTAATTTTA GGTGAAATC CGAATAAAAG AACTTTACTG GAAA 54
```

(2) INFORMATION FOR SEQ ID NO: 7775:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 188
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS09025

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7775:

```
GATCTGTATA ATGTACATTC AATATAGAAA GCTTTATATA TTTAAAAGNG TATAGAACAT 60
TTNACAATTA CACTCATCTT TAACATAACA TCTTGACATC CATTITTNAAT TTTTTTTGCA 120
CAAGCTCCTT TNCATTCAAT TTGGTAAAGC CAGTTATACA TACTANTGTG TACTGTGAGC 180
TTTCAGAN 188
```

(2) INFORMATION FOR SEQ ID NO: 7776:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 221
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single

(D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS09026
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7776:
 GATCACCTGN AGGTCAGGAA GTTTGAAAAC CAGCCTGGCC AACATGGCAA AACCCTGTCT 60
 CTAATAAAC AAAAATNAGC CAGCATGATG GCAGGCGCCT GTAGTCCNNN CTATTCAGGA 120
 GGCTGAGGCA GGAGAATCGC TTGAACTGGG AGAGGGGCGAG AGGTTGCAGT GAGCTGAGAC 180
 TGCATTCCAG CCTGGGCGAC ACAGCAAGAG TCTGTCTCAA A 221

(2) INFORMATION FOR SEQ ID NO: 7777:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 200
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS09027
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7777:
 GATCGTAGGA ATTGAAGGAG TGTCCCGCCT TGTGGCTGAN AACTGGACAG TGGCAGGGGC 60
 TGGAGATGGG TGINTGTGTG TGTGTGTGTG TGTGTGTGTG TGTGTGCGCG CGCGNCAGTA 120
 CAAGACCGAG ATTGAGGNAA ANCATGTCTT CTGGGTGTNA CCATGTTTCC TCTCAATAAA 180
 GTNCCCCTGT GACACTCAAA 200

(2) INFORMATION FOR SEQ ID NO: 7778:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 286
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS09028
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7778:
 GATCCTGGTC CCTCCCTGC TGGACCTGCC ACCCAGAGCT TCCTGNCTAG TCCCACTGGG 60
 CTGGCCCACC AGGCCTCTGA CCCAGGCTGC TCTNCGGCCC CTTCTCCTC CTNTTCCTGC 120
 TCCAATTCT GTCCACCTGG GGACAGTCTG TGCCTGTAGC CTNATGACCC CAACCCAGCC 180
 CCAGGCATGG CTAACCCCTG ACTGNTTGCC TCATATTTAA GCTGCTGNTN TGGCCAAGTG 240
 NCTAATTTTA ACCCAGACCT NAATAAGAG ACNTNTTTGT ACCAAA 286

(2) INFORMATION FOR SEQ ID NO: 7779:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 127
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS09029
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7779:
 GATCTGATTT TTCATAAAAA ACATTTGTGA ACCTTCGGCA TAAATGGGTT AAGGTGCCAT 60
 CCCTGAAACT GCAATGCAGA TATGTTTCAGN TAACTTTNAT TTNTTAATTA AAAATAAATC 120
 TTTCAAA 127

(2) INFORMATION FOR SEQ ID NO: 7780:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 105
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS09030

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7780:

GATCTGANTT TTCATAAAAA ACATAAANTG ACCTTCGGCA TAAATAGGTT AAGAAGCCAT 60
 CCCANAAACT NCAATGCAGA TATGTTTCAGN TAACTTTTAT TTTTN 105

(2) INFORMATION FOR SEQ ID NO: 7781:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 321
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS09031

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7781:

GATCGGCGCC GTTACAGACG TGGCTACTAT GGAAGGCGCC GTGGCCCTCC CCGGAATNCT 60
 GGTGAGATTG GAGAGATGAA GGATGGAGTC CCAGAGGGAG CACAANTNNN GGGACCGGTT 120
 CATCGAAATC CAACTTACCG CCCAAGGTAC CGTAGCAGGG GACCTCCTCG CCCACGACCT 180
 GCCCCAGCAG TTGGAGAGGC TGAAGATAAA GAAAATCAGC AAGCCACCAG TGGTCCAAAC 240
 CAGCCGTCTG TTCGCCGTGG ATACCGGCGT CCCTACAATT ACCGGCGTCG NCCGNTTCCT 300
 CCTAACGGTN CTTACANGT N 321

(2) INFORMATION FOR SEQ ID NO: 7782:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 66
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS09032

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7782:

GATCCACTGA GTTAGTTTCA TTGGGGCGGG GGAAAGAACT GGAATTAAAC TTGTTTAATC 60
 CTTAAA 66

(2) INFORMATION FOR SEQ ID NO: 7783:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 131

(B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS09033
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7783:
 GATCCTCCCA GCTGTCGGCC GCGGACCCGG GCCGCGTGTG AGCGGCTTTT GCACCTCCTA 60
 TCCCCAGGT CCGCCGAGAG CCACGATTTT TTTACAGAAA ATNAGCAATA AAGAGATTTT 120
 GTACTGTCAA A 131

(2) INFORMATION FOR SEQ ID NO: 7784:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 143
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS09034
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7784:
 GATCACAAAT GCATTTTTC AATCTTTACAA TATGAAATNT ATTTATAACT TTAGTTCCAA 60
 AATGGACTCT GTAATGCATT TGCCCATATT TTTAGTCGTA ATGGATGTGA TTATATTNA 120
 TTGAATTAA AATCTAACAG AAA 143

(2) INFORMATION FOR SEQ ID NO: 7785:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 345
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS09035
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7785:
 GATCTTAACT TTAATAAGGC AAAACAAAAG CTTGAGCTG TTGCGTGTGT AAGTCTGTTG 60
 TGTGGATGTN CGTGTNTGGT CCCCAGCCCC AGACTGGATT GGAAAAGTGC ATGGTGGGGG 120
 CCTCGGGGCT GTCCCCACGC TGTCCTTTTG CCACAAGTCT GTGGGGCAAG AGGCTGCAAT 180
 ATTCGTCCT GGGTGTCTGG GCTGCTAACC TGGCCTGCTC AGGCTTCCCA CCCTGTGCGG 240
 GGCACANCC CAGGAAGGGA CCCTGGACAC GGCTCCCACG TCCAGGNTTA AGGTGGATGC 300
 ANTTTCNGNA ACCTCCANTC TTCTGTGTAG CANCTTTAAC CNAGN 345

(2) INFORMATION FOR SEQ ID NO: 7786:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 167
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS09036
 (ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7786:
 GATCAGCTCT CTGTGAAAAT GGACCAATCA TCAGGATGTG GGTGGGGCCA GATTAGGGAA 60
 TAGAAGCAGG CTGTCTGAGC CAACAGTGTC ANCATGCTTG GGTCCCCTTN CATGCTGTGG 120
 AAACCTTTGTT CTTTCGCTCT TCACANTAAA TTTTGCTGCT GCTCAAA 167

(2) INFORMATION FOR SEQ ID NO: 7787:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 172
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS09037

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7787:
 GATCCTGGAC AAAGCTTGGC TGCCGGCTTC ATTTATTCCT GCTGATGGCT GAGAAGCATC 60
 TGTTTTCCAT CCCACTTGCC TGTCCCAAGT TTTGTTCCAT TTTTNAAAAA TTTGTTGTAA 120
 ACTGCATGTT TTATAAAATA AAAATAAAAT ATCGTTTGTA ATTTATCTCA AA 172

(2) INFORMATION FOR SEQ ID NO: 7788:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 255
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS09038

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7788:
 GATCCGCCCA CCTTNGGCCT CCAACACAA TTTATATTTT TGANGGTCCT TTTATGTGTA 60
 TTGTGCCATA TGCTTCTNAC ATCAGCCCCA ATAAATGCTT TAGGCGTTTT ATATTATCTA 120
 CCACTATTAC ATGCTCTCCA TCTCCAGACT ACCCATTTCT GCCATTGCCC TCATAGGGGC 180
 CCATTCTGAT AATTCTGGAT ATGTAGAAAA ATAAATCCTG TTTATGTGTT TAAATAAATA 240
 GATGTATACT ATAAA 255

(2) INFORMATION FOR SEQ ID NO: 7789:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 256
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS09039

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7789:
 GATCCCTGAC AGCAAAAAGT TTCTTTTCTG AGGCTGCCAT ACTGCCACTG TCCAGGTGGA 60
 GACTGAGCAA AGGAAGTCCT GGGCTGTGCC AGCTCCCAGA GCTTCGGAAG AAAGAGCAGC 120
 AGCTCTCTCC CTGGGAACCA TCAGAGAATT CTGTTGATGT GTTCTGTGTC TGTCTGTCAC 180
 CTGGTCACGA GCTTCTACCA CCTTGCAAT TGCTACTTAT CTTTCACTCC CTGAATAAAG 240
 TATCTATGCA TATAAA 256

(2) INFORMATION FOR SEQ ID NO: 7790:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 123
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS09040

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7790:

```
GATCTCCAC CTTTCGGGCC ATGTTGCCCC CGTGAGCCAA TCCCTCACCT TCTGAGTACA 60
GAGTGTGGAC TCTGGTGCCT CCAGAGGGGC TCAGGTCACA TAAACTTTG TATATCAACG 120
AAA                                             123
```

(2) INFORMATION FOR SEQ ID NO: 7791:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 310
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS09041

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7791:

```
GATCTAGCTT CAGAGGAAGT CTACACCCCA TTCCCTTCTG CTTACAATGT ACCCATGATA 60
TGTGTTTAGC NNNNGNAATAC TGTAACAGGA CATCACATGG AAAAATCAAA GCAGCTGGCT 120
CACTGTATTT AACTGAAAAG AATGCCTACA GATTGGATAT TTAATAGGGA AAATTAAGGC 180
ACTTTAATAA CANACTTCAT TATGTGAAGT TGTGTAATAT TNNCATA CAN TATACCTTGT 240
ATATTANTGC CATAGTTTTT NGAAACACTA ATTTAAACAA CANATTTNAG GGGTGCTGGC 300
ATATCCCAAGN                                     310
```

(2) INFORMATION FOR SEQ ID NO: 7792:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 61
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS09042

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7792:

```
GATCCGAAGG CTGCGGGCAG CGTNTNATCC CGTGGTTTAA TAAAGCTGCC GCGCGCTCAA 60
A                                             61
```

(2) INFORMATION FOR SEQ ID NO: 7793:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 310
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS09043
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7793:
 GATCTTGGTC TTATTTGCAC AGTTTTTGCG TCTTGTTTGC TTCTTGCATC TGATTAAC TA 60
 GAATATTTCT NTTTCCCCCT TTTAATTTGT GATGTCAC TT GACCCCATTT ATGTGTAGGA 120
 GCACTACNCC ATTGGTTTCC AATACTGCAC ACATAAGATA CATACTTGTG TGCAGAAAGT 180
 ATCTTCCTCC AGGCTTGTA TACCCTTCAC ATGGAAGATT AATGAGGGAA ATCTTTATAT 240
 TCTGTATAAA ANCAAANGCA AATTTATATA CTAAATCAT TTGTCTAAAA NTTTAAGTNG 300
 TTTTCAATN 310

(2) INFORMATION FOR SEQ ID NO: 7794:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 165
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS09044
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7794:
 GATCAGTAGA AAATGGACAT CAAGTTTGAA CAGATAAATC ATGGACAGCC TTATTGTGAT 60
 TGAAATGCTT GTAGGTTCTG TGCCAATTTT CCACCACTGT GTACTTTGTT GCTATTTAAA 120
 ACTGTATCAA CTCTAACGGA AGAATAAATT ATTTGTGATT TTAAA 165

(2) INFORMATION FOR SEQ ID NO: 7795:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 149
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS09045
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7795:
 GATCCGAGAG TNAAGGAAGT TCCCTGTNTT CCCCCTCCTT TTCCACCAGT NTCGCCTCTG 60
 GCCTTCTCTG GCCACTCCTG GGAGGGACTG CCTCACCACC CCTGTCCCGC TGCCAGAAAT 120
 ACACCCACAA TAAAAACCTG AAAACCAA 149

(2) INFORMATION FOR SEQ ID NO: 7796:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 98
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS09046
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7796:
 GATCCAACT AACTGCCCAA GCACTACACA GCTGGACCCT GNTTCACNT AACCCGCANC 60

TAGCAATCAA TACAGCTTCA TTATCTGAGT TGCATAAA

98

(2) INFORMATION FOR SEQ ID NO: 7797:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 265
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS09047

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7797:

```

GATCTNTAGC CTCACCCTGN TCTCCTTCTT CCTACTGGCT GCTCAGGTGC TCCTGGTGGG 60
GGGGAAAAAA AAAGTGAAGA ATGGACTTCA CAGCAAAGTG GTCTCAGNNC AAAAGGNCAC 120
TCTGGGCAAC ACCCAGATTA AGCAGAAAAG CAGGCCCCGG ANCAANGGCA AGTTTGTAC 180
CAAAGACCAA GCCAACTGCA GATGGGCTGC TACTGAGCAG GAGGAGGGCA TCTTTCTCAN 240
GGGNNGGGTG CACTCAATTG GNNNNN                                     265

```

(2) INFORMATION FOR SEQ ID NO: 7798:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 146
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS09048

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7798:

```

GATCTTACCC GTGCNTGGNC CCCTCCCCTC ANAGCCCATG GTAACGAACC CCTAGAAAGG 60
AGAGAACGGG CGTCAGGGGT GCACAGTCCA CAGCTGAAGA GCAAGGTTTN GTGGCAGCAC 120
GGNCCGGCCC CTCACCCTCT NTNCCN                                     146

```

(2) INFORMATION FOR SEQ ID NO: 7799:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 317
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS09049

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7799:

```

GATCTCCGGA CCTCGGCTGC AGAGGCCATC GCAGCTTTTN AAAAGTNAAG TGGTTAATTC 60
CCATTGGTGT CTTTNTTAT AGCATTTCN TCTAACCTAT AACAAGGGGG CATTACATTT 120
ANCTTTAGAA CATGTGAATA GGAGGTTTNC TCATGACTTA CCATTCCAGC TGNATGGGAA 180
AGCAAAGCAG AAAACAGTGC CCCAAATGGA AAANAGNTAC TCACACAGAN CAAAACAGTT 240
CTNGGTCTTG TCCTTGGTCT TGTCAAACCT TGCCTGATGC TCTTTCTAAN GTCNAAATAT 300
GANTGATAAG CCNGGCN                                             317

```

(2) INFORMATION FOR SEQ ID NO: 7800:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 372
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS09050

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7800:

GATCTGGTTA	AGTTGTGTAG	TAAAGCATT	GGAGGGTCAT	TCTTGTCACA	AAAGTGCCAC	60
TAAACAGCC	TCAGGAGAAT	AAATGACTTG	CTTTTCTAAA	TCTCAGGTTT	ATCTGGGCTC	120
TATCATATAG	ACAGGCTTCT	GATAGTTTGC	AACTGTAAGC	AGAAACCTAC	ATATAGTTAA	180
NATCCTGGNC	TTTCTTGGTA	AACAGATTTT	AANTTTCTGA	TATAAANCAN	GCCNCAGGAG	240
AATTCGGGGA	TTTNAGGTTT	NCNGAATAGC	CTATATATGG	TGCATCGGNT	AGGTCNTTAT	300
TGATTTTTTG	ACCCTTTTCG	GCTTTACCTN	ATGGGAAGAC	CCNGTTCNTT	TTTAAATNAT	360
CCNGGTTTTT	GN					372

(2) INFORMATION FOR SEQ ID NO: 7801:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 356
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS09051

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7801:

GATCAACCTC	TGAATTTTAC	ATCATGAATG	TAATCACCAC	TGGAGCTTCA	CTGTTACTAA	60
ATTATTAATT	TTTTGCCTCC	AGTGTTCAT	CTCTNAGGCT	GAGCATTATA	AGAAAAATNAC	120
CTCTGCTCCT	TTTCATTGCA	GAAAATTGCC	AGGGGCTTAT	TTCAGAACAA	CTTCCACTTA	180
CTTTCCACTG	GCTCTCAAAC	TCTCTAACTT	ATAAGTNTTG	TGAACCCCCA	CCCAGGCAGT	240
ATCCATGAAA	GCACAAGTGA	CTAGTCCTAT	GATGTACAAA	GCCTGTATCT	CTGTGATGAT	300
TTCTGTGCTC	TTCACTCTTT	GCAATTGCTA	AATAAAGCAG	ATTTTATAAA	TACAAA	356

(2) INFORMATION FOR SEQ ID NO: 7802:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 359
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS09052

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7802:

GATCAAGCAG	ATTCCACGAA	TCCTCGGCCC	AGGTTTAAAT	AAGGCAGGAA	AGTTCCCTTC	60
CCTGCTCACA	CACAACGAAA	ACATGGTGGC	CAAAGTGGAT	GAGGTGAAGT	CCACAATCAA	120
GTTCCAAATG	AAGAAGGTGT	TATGTCTGGC	TGTAGCTGTT	GGTCACGTGA	AGATGCCNGA	180
CGATGAGCTT	GTGTATAACA	TTCACCTGGC	TGTCAACTTC	TTGGTGTGCT	TGCTCAAGAA	240
AANCTGGCAG	ANTGTTCCGG	GGCCTTATNT	TNTCAAGAGC	ACCNTGGGGN	AAAGCCCCCA	300
GNGGCCTNTT	NTTAAGGGCA	CCGTTTNGAN	NTAAATTTTC	TNGTTANCCC	AGTTCNAAA	359

(2) INFORMATION FOR SEQ ID NO: 7803:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 134
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS09053

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7803:
 GATCCGGCCA GTTCATTGAA CAAACCTTTC CTTTTTCTAA AGTTCCAGAA GCCTTCCTGA 60
 AGGTGGAAAG AGGACACGCA CGAGGAAAGA CTGTAATTAA TGTTGTTTAA ATAAAAATGC 120
 AGTTTAGTGA TAAA 134

(2) INFORMATION FOR SEQ ID NO: 7804:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 62
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS09054

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7804:
 GATCTACTGA CATTAGCAC TTTGTACAGT ACAAATAAA GTCTACATT GTTTAAAACA 60
 AA 62

(2) INFORMATION FOR SEQ ID NO: 7805:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 120
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS09055

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7805:
 GATCTGGATG ATGGTTATGT AGCTGCATAT ATTTGTCAAC ATTCCTCATG CTGTATGTTT 60
 AGATTTGTGA TTTTACTATA TGTAATTAA TTCCTTAATA AAATACTATT ATAAAAATAA 120

(2) INFORMATION FOR SEQ ID NO: 7806:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 209
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS09056

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7806:
 GATCTAATCT TCTGTGCTCT GTGTATTGGC GACGAGCAGG GTGAGAATAA GTGCGTGCCC 60

AACAGCAATN AGAGATACTA CGGCTACACT GGGGCTTTCC GGTGCCTGGC TGAGAATGCT 120
 GGAGACGTTG CATTTGTGAA AGATGTCACT GTCTTGCAGA ACACTGATGC CCTCCTGGAA 180
 GCCTGTGAAT TCCTCAGGAA GTAAAACCN 209

(2) INFORMATION FOR SEQ ID NO: 7807:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 59
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS09057

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7807:

GATCTTAATT TTAAAAATTA AAACCTGGNG TTTTAAAT AAAACCTTT TGTCTTAA 59

(2) INFORMATION FOR SEQ ID NO: 7808:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 100
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS09058

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7808:

GATCAAAGTA ATTGCTTAAA TGTCTTGTGG AATNAGCTGT CACTTTATAG TTTATGTATT 60
 GTGGTGGGTA CCTTAATAAT AAAAAGATTT TTAATGTAAA 100

(2) INFORMATION FOR SEQ ID NO: 7809:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 118
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS09059

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7809:

GATCTGTTTG ATGGTTACAT CAGTGTATAT TTGTCAAAT TCCTCAAAC GTATGCTTAA 60
 GGCTTTGTGC ATTGTATTGC ATGTAAATNA TACTTCAATA AAGTACCAAT AGCATAAA 118

(2) INFORMATION FOR SEQ ID NO: 7810:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 183
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS09060

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7810:

```
GATCCATAAC CTCCTTAGAG ACCGGCTCCT GGATGCAGAA TCCATGAGG TTCTGGCCAC 60
ACCTGTTTCT TGTCNTCAG GGGCTGACAC CCATGTNCCA TCCCTCTAAA CCCCTGTCCC 120
TAAACCTACC CCATCTNATG TAACTCTGGG GTTCCTTGGT CATTAGAGGG TTTTNAGGTC 180
AAA 183
```

(2) INFORMATION FOR SEQ ID NO: 7811:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 175
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS09061

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7811:

```
GATCTGAATG GTTTTAATAA GTGTCTGGNA ATTCCCCTGC TTGCACTTGT NTNTCTCGCC 60
CACCACCACG TAAGACGTGC CTGCTTCCCC TTCTGCCATG ATTGTAAGTT TCCTGAGGCG 120
TCCCCAGCCA TGCAGAACTG TGAGTCAATG AAACCTCTTT TTTTATAAAA TTAAA 175
```

(2) INFORMATION FOR SEQ ID NO: 7812:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 329
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS09062

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7812:

```
GATCCCCCAT TCCCCACCCT GGGAGATGAG GGGGTCCCCA TGTGCTTTTC CAGTTCTTCT 60
GGAATTGGGG GACCNCCGCC AAAGACTGAG CCCCTGTNT CCTCCATCAT TTGGTTTCCT 120
CTTGGCTTTG GGGATACTTC TAAATTTTGG GAGCTCCTCC ATCTCCAATG GCTGGGATTT 180
GTGGCAGGGA TTCCACTCAG AACCTCTCTG GAATTTGTGC CTGATGTGCC TTCCACTGGA 240
TTTTGGGGTT CCCAGCACC CATGTGGATT TTGGGGGGTC CCTTTTGTGT CTCCCCCGCC 300
ATTCAAGGAC TCCTNTCTTT TTTTCAANN 329
```

(2) INFORMATION FOR SEQ ID NO: 7813:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 326
(B) TYPE: nucleic acid
(C) STRANDNESS: single
(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(B) CLONE: HUMGS09063

(ix) FEATURE:

(D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7813:

```
GATCTGCCAG CCCTACATCC GGCCGGGGCC CAGGGAGGGG AGCAAGGAGA AGGCAGGTGC 60
GCGCANAAGC GGGCCCTGGA GGAAGAGGAG GGTGGCACGG AGGTCCTGTC CAAGAACAAG 120
CAAAAGAAGC AGCTGAGGAA CCCCCACAAG ACCTTCGACC CCTCTTTGAA GCCAAAATAT 180
```

GCAAAGTNTG ACCAGTGTGG AAACCCAAAG GGCAACAGAT GTNTGTTTCTAG CCTGTGCCGN 240
 GGCTGCTGCA NGANGCNGNC CTTCAAAGNG ACTGCAGACT GNCCAGGTNA CGGTTTGCTT 300
 TTTAAAACCA ATTTNGGAGA AGTTTN 326

(2) INFORMATION FOR SEQ ID NO: 7814:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS09064

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7814:

GATCGGAATG NAAATCTAAA

20

(2) INFORMATION FOR SEQ ID NO: 7815:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 248
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS09065

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7815:

GATCAATGTT GAAAGTGTG TTATATGGCA AGTNTTTAAC ACATTACACAG TGTTTGTTTG 60
 ATTTCAACTG TGAATTGTCT TACAGTTTTT TCAAACCTAG TTGTTTCTAT GGACACCTGC 120
 TCTGAATTGT ACATTGACTN CATTACTAAA GAACAAAAT GTTCATTTTT GTCCAGTAA 180
 ATTGAGACTG CTTGTACACT TTCAGAAAAA TATGTGAATT TATAAAGNTT TTGTAGATAC 240
 TTGTCAAA 248

(2) INFORMATION FOR SEQ ID NO: 7816:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 87
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS09066

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7816:

GATCCCCGGA TTTNACACTC CTTCTGTTTT GTTGCCGTTT ATTTTGTAC TCAAATCTCT 60
 ACATGGAGAT AAATNATTTA AACCAAA 87

(2) INFORMATION FOR SEQ ID NO: 7817:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 267
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS09067
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7817:
 GATCCACCTG NCCCTGACCT CCGACAGTGC TGGGATTACA GGCATAGCCA CCGTGCCTGA 60
 CCAGGGCTCT TTTAGCAAGG AAAACGTGAG GAATGAATGG CTGTTGGTGT GCAACAAATC 120
 ATACTTGCTA CATGTTGTGA ACCTGAAGTT ATTTGTTAGT CTGTATGAAG AATGTACCCC 180
 AGAGATGCAC CCTGTATCTG CCTTATGTCT CTTACAATGG AGGTTCTCTC CTGTTATATT 240
 GCTGAATAAA CTATGTGAAC TGCTAAA 267

(2) INFORMATION FOR SEQ ID NO: 7818:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 22
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS09068
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7818:
 GATCTTCAAG CAAGAAAATA AA 22

(2) INFORMATION FOR SEQ ID NO: 7819:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 90
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS09069
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7819:
 GATCATAGCT GAAAATTAAT GATACTGTCA ATTTGAGATA GCAGAAGTTT CACACATCAA 60
 AGTAAAAGAT TTGCATATCA TTATACTAAA 90

(2) INFORMATION FOR SEQ ID NO: 7820:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 25
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS09070
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7820:
 GATCATTAAA AAATTAATAA AGAAA 25

(2) INFORMATION FOR SEQ ID NO: 7821:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 33

(B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS09071
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7821:
 GATCCCAATG AAACGAATTC TGTCTCCCTG AAA 33

(2) INFORMATION FOR SEQ ID NO: 7822:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 23
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS09072
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7822:
 GATCTTCAAG CAAGTTAANT AAA 23

(2) INFORMATION FOR SEQ ID NO: 7823:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 75
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS09073
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7823:
 GATCTTCATT TAGCTCCTTT ACTGGGATTT ATTGGATGCT NGTAAAAAAA TAAATTTAC 60
 ACTGTNTATG CGAAA 75

(2) INFORMATION FOR SEQ ID NO: 7824:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 284
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS09074
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7824:
 GATCAAGAAA GGGCTGTGGC TTGTATCAAA GGGTGTTTAA AAGGATTTAC TATCAGATTT 60
 GGCCTTGT TT TCTGTGATTT TGGNNAGCGT TCAAGGAAGC CAGGCTTTGG TCTGGATTGG 120
 ATGTTCTCAG GTCATGAATA TAATTCTCTG GGAAGTCCCA AAGTTCTCAT CTACAAAGCA 180
 GAAGTTAATT GGAGCTGAAA ACTAATCAGT AAAGCCACAG CAGCCAGTCA TATGGGGGAG 240
 AAGAGGGGAA TGTTTGATGG TTTTGTGGT TTAGAGGTGA GTTN 284

(2) INFORMATION FOR SEQ ID NO: 7825:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 21
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS09075

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7825:

GATCCTTTGT TAACAAATAA A

21

(2) INFORMATION FOR SEQ ID NO: 7826:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 159
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS09076

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7826:

GATCATATTT ATTTTAACTA TTTTTTTAGA AAATTATTAA TTTTAATTGT ATTTTTGTAT 60
 TTAAAAAGCT TCTTCACTTG TTTTCCCTAA NNNTTCANAT TGCTGCCCAA AAGTATGACT 120
 GTGGAGGAAA AAAAANTACT TNAAAANTCC ACACTTTTN 159

(2) INFORMATION FOR SEQ ID NO: 7827:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 328
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS09077

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7827:

GATCTGTGCA GGGTATTAAC GTGTCAGGGC TGAGTGTTC T GGGATTTCTC TAGAGGCTGG 60
 CAAGAACCAG TTGTTTTGTC TTGCGGGTCT GTCAGGGTTG GAAAGTCCAA GCCGTAGACC 120
 CAGTTTCCTT TCTNAGCTGA TGTCTTTGGC CAGAACACCG TGGGCTGTTA CTTNCNTTNA 180
 GTTGGAAGCG GTTTGCATTT ACGCCTGTAA ATGTATTCAN TCTTAANTTA TGTAAGGTNT 240
 TTNTTGACG CAATTCTCGG TTCTTTGANG NGATGGCAAC AAATTTTGGG NTTCTACTGT 300
 TATGTTGGGG NNCATTNGGG CCCANGNN 328

(2) INFORMATION FOR SEQ ID NO: 7828:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 108
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS09078

(ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7828:
 GATCTCCTGA CCTCGTCATC CGCCCGTNTC GGCCTCCCAT AGTGCTGGGN TTACAGGCAT 60
 GAGCCACCAC GCCCGGCTGT TTTATTTCTT ATAAGTGTAC AGGANNNN 108

(2) INFORMATION FOR SEQ ID NO: 7829:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 277
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS09079
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7829:
 GATCATGAAG CCATCAGCTC CTCTGGGGCC AGCTANAGGA CAACAGAACT NTCACCAAAG 60
 GACCAGACAC AGTGAGCACC ATGGGACAGT NTCGGTCAGC CAACGCAGAG GATGCTCAGG 120
 AATTCANTGA TGTGGNGAGG GCCATTGAGA CCCTCATCAA GAACTTTTAC CAGTACTCCG 180
 TGGAGGGTGG GNAGGNGACG CTGACCCCTT CTAAGCTACG GGACCNNGGT CACCCAGCAG 240
 CTGCCCCATN TTNATGCCGA GCAACTTNTN GNCTGGN 277

(2) INFORMATION FOR SEQ ID NO: 7830:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 123
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS09080
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7830:
 GATCAGACCA AACAGTGCTG TTTCCCGGGG AGGAAACACT TTTTAAATTA CCCTTTTGCA 60
 GGCTCCCAAC TTTAATCTGT TTTATACCTT GCTTATTAAA TGAGCGACTT AAAATNATTG 120
 AAA 123

(2) INFORMATION FOR SEQ ID NO: 7831:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 338
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS09081
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7831:
 GATCCAGAAA TGGAGACTGG ACCTTCCAGA CCCTGGTGAA TGCTGGAAAC AGTTCCTCGG 60
 AGTGAGAGG TTTACACCTG CCAAGTGGAG CACCCAAGCC TGACGAGCCC TCTNACAGTG 120
 GAATGGAGAG CACGGTCTGA ATCTNCACAG AGCAAGATGC TGAGTGGAGT CGGGGGCTTC 180
 GTGCTGGGCC TGCTCTTCCT TGGGGCCGGG CTGTTTCATCT ACTTCAGGAA TCAGAAAGGA 240
 CACTCTGGAC TTCAGCCAAC AGGATTCTCT AGCTGAAGTG AAGATGNCCA CATTCAAGGA 300

AGAACCTTCT GCCCCAGCTT TGCAGGATGA ANCACTTN

338

(2) INFORMATION FOR SEQ ID NO: 7832:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 309
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS09082

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7832:

```
GATCTAATCT CAAATACAGT GCTTAGTAAG GGAACCTCTG TGCCTTTGGG GATTG GGGGA 60
TTAAAACGAA TCTTTTAAAT ATATTTCCAA ATATTAAAAT ATAAAAGGAT ATTCCTCTG 120
ATGTTAAAAG TGAGTATGGG GGTGGCACAT TATATGGAAA GTNCCATGTT TGCTTAANTG 180
CTATGTAAAA TAACTTGGCA TATTANTTGA CTTTGANTGT GAAANTCATA TGCCCTTNGA 240
NTATGGNTGC CTTAGCTCAT TTGACANCTG GNAGANTACT TGTNTATCTN GTTTNAGACA 300
CATTGANTN 309
```

(2) INFORMATION FOR SEQ ID NO: 7833:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 233
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS09083

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7833:

```
GATCCAAAGT GGCAGGAGGT CTGTGTTGTC ATGGNGAACT GGAGTTTCTC TTGTAAGAGT 60
TCCCTCATCT GAAATCATGT ATCTNTCTCA CAAATACAAG CATAAGTAGA AGATTGTGTTG 120
AAGACATAGA ACCCTTATAA AGAATTATTA ACCTTTATAA NCATTTAANG TCTTGTNAGC 180
ACCTGGGAAT TAGTATAATN CCANTGTATAA TTTTTNNAT TTACATTTTG TNN 233
```

(2) INFORMATION FOR SEQ ID NO: 7834:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 99
- (B) TYPE: nucleic acid
- (C) STRANDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (B) CLONE: HUMGS09084

(ix) FEATURE:

- (D) OTHER INFORMATION: "N"=unidentified base

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7834:

```
GATCGGAATT TNACAGAATT GGGACTGTGG AACCNNGGGT CACTTGAATT TCCTATATTT 60
TGTATGGCCA AATCAGGAAC CAGACAGTCT CCATAGTCN 99
```

(2) INFORMATION FOR SEQ ID NO: 7835:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 288
- (B) TYPE: nucleic acid

(C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS09085
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7835:
 GATCAGCCGA TGACAGAGAT TGTAAGCCGT GTGTCGAAGC GAAACTGGNG CCGCCACGTG 60
 CGGGCNCTGG TGCTTGACCT GTGCTGTAAC GACGAGAGCG GCGAGGATGT CGNGGGGCNA 120
 NAAAANCGGT ACACCATCCG CTGACCCCGT CTGCTCCTCT AGGCTGGCCC CTTGTCCACC 180
 CCTCTCCACA CCCCTTCCAG CCCAGGGTTC CCATTGGCT TCTGGCAGTG GCCCAACTAG 240
 CCAAGTCTGG TGTTCCCTCA TNATCCNCT TACCTGAACC CNTNTTGN 288

(2) INFORMATION FOR SEQ ID NO: 7836:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 32
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS09086
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7836:
 GATCTAAATA AAATGGACNG TTCTACCTTA AA 32

(2) INFORMATION FOR SEQ ID NO: 7837:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 152
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (vii) IMMEDIATE SOURCE:
 (B) CLONE: HUMGS09087
 (ix) FEATURE:
 (D) OTHER INFORMATION: "N"=unidentified base
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7837:
 GATCTGAAAC AGATGAAAGT TATAATAGTT TACATACCTT ACCTTAAAGT ATGGTTTTTA 60
 AATACTTAAG ATGTGATATG ACATATAGTG TGTATATATA TCTNATNCTA NNGGAAAAAG 120
 GGACATTAAA AAAGCTTATG TTAAAAGATA AA 152

(2) INFORMATION FOR SEQ ID NO: 7838:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 108
 (B) TYPE: nucleic acid
 (C) STRANDNESS: single
 (D) TOPOLOGY: linear
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7838:
 GATCGTTCTT CATGGGGGTA AGAAAAGCTG GTCTGGAGTT GCTGAATGTT GCATTAATTG 60
 TCCTGTTTGC TTGTAGTTGA ATAAAATAG AAACCTGAAT GAAGGAAA 108

(2) INFORMATION FOR SEQ ID NO: 7839:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 30